

RCA

Satellite Receiver User's Guide

Changing Entertainment. Again.



Important Information

WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

Cautions

Do not stack electronic components or other objects on top of the Digital Satellite Receiver. The slots on top of the receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components.

Remove any sales or promotional materials attached to the product.

Do not stack the digital satellite receiver on top of a "hot component" such as an audio power amplifier.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Your system is equipped with a RF remote control. The RF remote control complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) The RF remote may not cause harmful interference and; 2) The RF remote must accept any interference received, including interference that may cause undesired operation.

Note to Cable TV Installer:

This reminder is provided to call your attention to article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1 which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Note to Satellite Dish Installer:

This reminder is provided to call your attention to articles 810 and 820 of the 1999 National Electrical Code. Refer to article 810, in particular to 810-1 and 810-15, for required grounding of the metal structure of the Dish Antenna. Refer also to the 810-2 which, by reference to article 820, requires that the satellite dish coaxial cable shield be connected to the grounding system of the building as close to the point of cable entry as practical.

IMPORTANT NOTICE:

This device incorporates an anticontrol process technology that is protected by U.S. patents and other intellectual property rights. The anticontrol process is licensed for non-commercial, home use only. Reverse engineering or disassembly is prohibited.

Care and Cleaning:

Use a soft cloth or dusting attachment of your vacuum cleaner to dust your digital satellite receiver. Remove dust from the ventilation holes on the top and bottom. Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. A non-abrasive, anti-static cleaner/polisher is recommended.

Product Registration

Please fill out the product registration card (packed separately) and return it immediately. Returning the card allows us to contact you if needed.

Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product.

Model No. _____

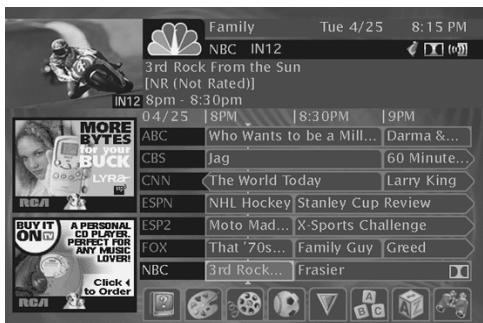
Serial No. _____

Purchase Date: _____

Dealer/Address/Phone: _____

Key Features Overview

Your digital satellite receiver is equipped with features that will add to your viewing experience. The following information summarizes a few of these features. Chapter 3 provides more information about the rest of the satellite system's features and how to use them.



On-screen Program Guides

Description: Available on-screen guides include a new Advanced Program Guide™ which stores up to seven days of programming information and lists five different channels of programming at a glance.

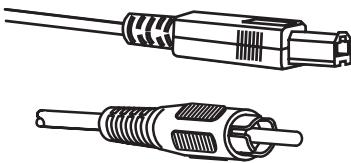
Requirements: Complete the on-screen assisted setup. You'll find detailed instructions how to do this in Chapter 1, *Connections & Setup*.



Interactive Channel Banner

Description: A transparent banner at the top of the picture allows direct access to the key features of the digital satellite receiver including a way to display the Main Menu, viewing suggestions, program details, on-screen Caller ID Display capability, The Guardian™ channel locking system, on-screen message display, the Scout™ keyword/phrase and the AlphaSort™ alphabetical search features, and alternate audio offerings.

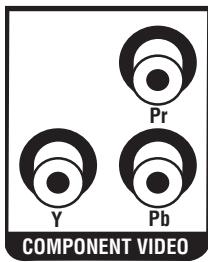
Requirements: Press the INFO button on the remote control. Highlight different icons using the remote control's arrow buttons. Select the highlighted icon using the remote control's OK button.



Dolby Digital Sound Capability

Description: Dolby Digital® (when available) provides six independent soundtrack channels through the optical and coaxial output jacks. When connected to an optional, compatible six-channel amplifier/receiver and speakers, these connections provide Dolby Digital® Surround Sound.

Requirements: A TV with digital audio input jacks, or a digital audio receiver/decoder.



Component Output

Description: This connection provides optimum picture quality because the video is separated into three signals. Use three video-grade cables for the connection and connect the left and right audio cables, because the Y P_B P_R jacks and cables carry only the picture signal, not the sound.

Requirements: A TV with component video input jacks, component video cables to connect the receiver to a TV. The TV must be tuned to the component video input channel to see the component video signal.

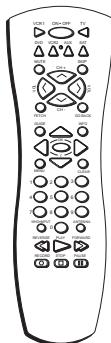
Introduction



One-button Record

Description: Records any program being watched with the touch of one button. The receiver sends infrared commands to the VCR through a VCR-controller cable to execute the recordings at the proper time.

Requirements: Connect the satellite receiver to the VCR and attach the infrared cable on top of the VCR's remote control sensor. Set up the digital satellite receiver system using the first-time assisted setup and follow the directions on page 22 to select the VCR type.



Universal RF Remote Control

Description: Provides complete satellite system operation, and primary function control of most brands of remote-controllable TVs, VCRs, and cable boxes. When the RF Antenna is connected to the receiver, this remote control will work from any room in the house using its built-in UHF capabilities.

Requirements: To control other components that are not RCA, GE, or Proscan, you must program the remote control. For more information, go to Chapter Two, *Using the remote Control*.



DIRECTV INTERACTIVE™ powered by WINK Communications®

Description: An interactive television service that lets you access up-to-the-minute news, sports, financial information, weather, program trivia, and respond to free offers and even shop— all while you watch TV.

Requirements: Establish a free, secure Interactive TV account, then press the OK/i button on the remote control whenever you see the Interactive logo () appear on-screen. For more information, see page 34 in the *Satellite System Features* chapter.



Software Upgrades via Satellite

Description: The digital satellite receiver is able to modify some of its features and functions with downloaded RSA-secure upgrades or modifications. RSA-secure downloads ensure that only authorized upgrades are delivered to your RCA digital satellite receiver.

Requirements: Consult the *Upgrade Menu* to find a schedule of upgrades or modifications planned by DIRECTV. For more information, see page 66 in the *Using On-screen Menus* chapter.

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Setup & Connections

Chapter Overview:

- Things to Consider Before You Connect
- Choose Your Connection
- RF Remote Antenna Connection
- Digital Audio Output Connection
- Place Batteries in the Remote Control
- Connect the VCR Controller
- Assisted Setup
- Order Programming

Changing Entertainment. Again.



Things To Consider Before You Connect

Protect Your Components from Power Surges

- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the digital satellite receiver, TV and other components before you connect or disconnect cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Information sheet packed with your unit.

Position Cables Correctly to Avoid Audio Hum or Interference

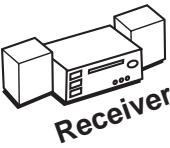
- Insert all cable plugs firmly into their jacks.
- Place the Audio/Video (A/V) cables to the sides of the TV's back panel instead of straight down the middle after you connect your components.
- Try not to coil any twin-lead cables and keep them away from the A/V cables as much as possible.

Protect Your Components from Overheating

- Do not block ventilation holes in any of the components. Arrange the components so that air can circulate freely. ***Remove any sales or promotional materials attached to the product.***
- Do not stack components.
- Allow adequate ventilation when placing components in a stand.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other components.

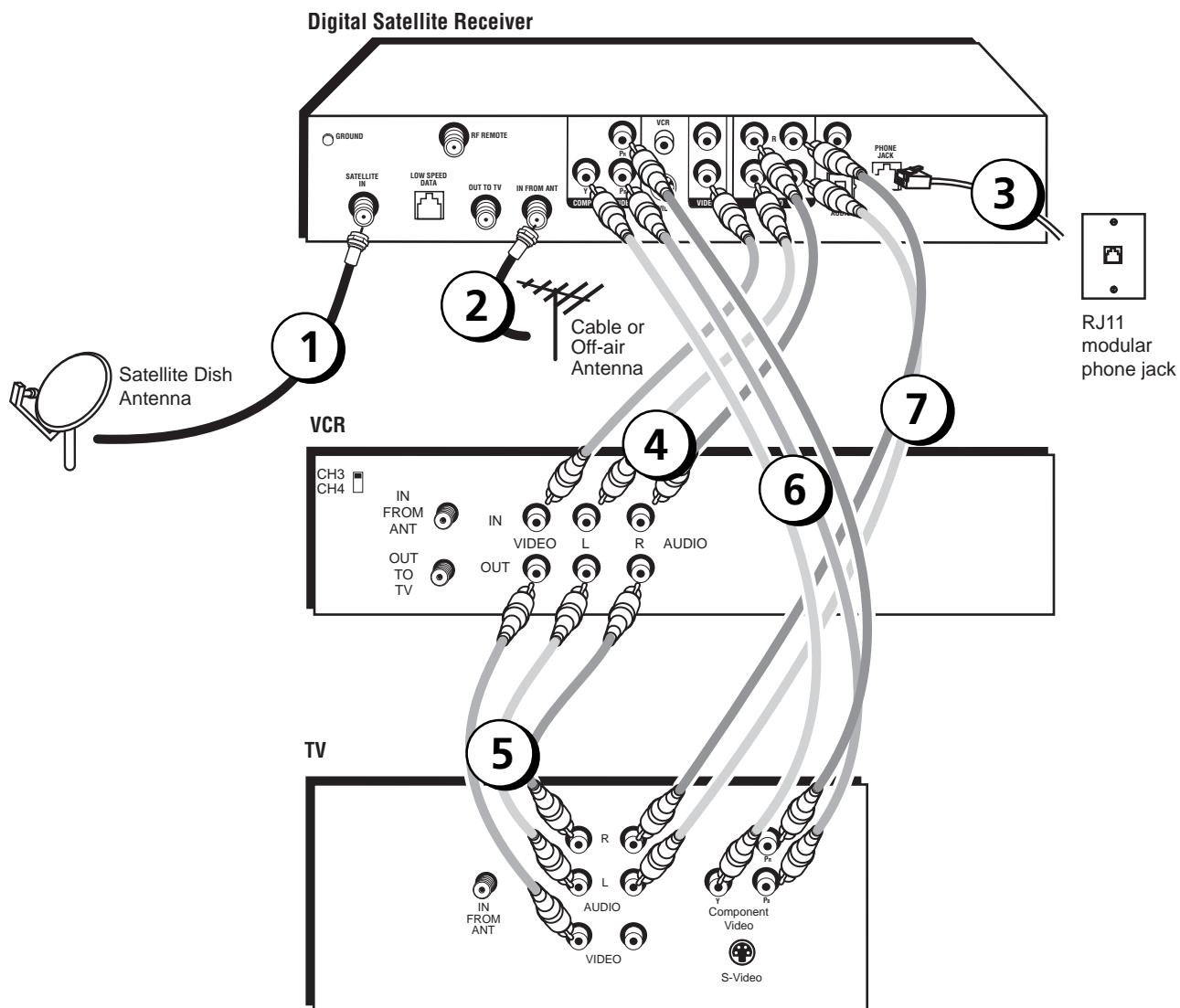
Choose Your Connection

There are several ways to connect your digital satellite receiver depending on the components you want to connect and the quality of the signal you want to achieve. Please use the following chart to determine which connection is best for you. Proceed to the appropriate page and connect your satellite receiver. For more information about the relationship between cables, jacks, and the quality of the signal, go to pages 18-19.

Component	Signal Quality	Jacks on the satellite receiver	Cables needed*	Go to...
 TV	Excellent	COMPONENT INPUT (Y, P _B , P _R) AUDIO L and R	component video, audio left and right	page 8
	Very Good	S-VIDEO, AUDIO L and R	S-video, audio/video	page 10
	Good	VIDEO, AUDIO L and R	audio/video	page 12
	Basic	OUT TO TV	coaxial	page 14
 VCR	Very Good	VIDEO, AUDIO L and R	audio/video	page 8
	Good	OUT TO TV	coaxial	page 14
 Receiver	Excellent	DIGITAL AUDIO	optical (SPDIF)	page 18
	Very Good	DIGITAL AUDIO	coaxial	page 18

* Pictures of cables are on page 18.

Setup & Connections



Note: Your VCR and TV back panels may not look exactly like the ones shown.

Excellent Connection

Using A/V Cables for component video and A/V connections for the TV and VCR

This connection provides this receiver's best picture quality, surpassing that of S-Video. The component video connection is recommended for use with HDTVs and multimedia monitors.

Component Video provides the best picture quality (breaking the video signal into three separate parts). Remember to connect audio cables as well.

What you will need:

- Eight (8) A/V cables
- Three (3) video grade (or component video) cables
- One (1) telephone line cord
- Coaxial cable lines fed from a digital satellite antenna and a standard TV antenna (or cable feed)

Making the Connection

1. Connect the satellite dish antenna feed (RG-6 coaxial cable) to the SATELLITE IN jack on the satellite receiver.
2. Connect the cable box or off-air antenna feed (RF coaxial cable) to the IN FROM ANT jack on the satellite receiver.
3. Connect one end of the supplied telephone line cord to the PHONE JACK on the back of the satellite receiver, and the other end to an RJ11-type modular phone jack (the most common type of phone jack).
4. Connect the ends of the supplied A/V cables to the AUDIO and VIDEO jacks on the back of the digital satellite receiver. Connect the other ends of the A/V cables to the corresponding Audio/Video input jacks on the back of the VCR.

Note: Make sure you connect jacks corresponding to their labels. For example, VIDEO Out on the digital satellite receiver should be connected to VIDEO IN on the VCR, AUDIO R OUT to the VCR's right audio input jack, etc.

5. Connect the ends of a second set of A/V cables (not supplied) to the AUDIO and VIDEO output jacks on the VCR. Connect the other ends of the A/V cables to the corresponding Audio/Video input jacks on the back of the TV.
6. Connect the ends of the component video cables (not supplied) to the COMPONENT VIDEO jacks on the digital satellite receiver. Connect the other ends of the component video cables to the corresponding input jacks on the back of the TV.

Note: Make sure you connect jacks corresponding to their labels. For example, Pr Out on the digital satellite receiver should be connected to Pr IN on the TV, Pb OUT to Pb IN, etc.

7. Connect cables to the digital satellite receiver's second AUDIO OUT jacks and the other ends to the corresponding Audio input jacks on the TV.

Go to Page 18

Using Your Components

To watch DIRECTV® programming:

Tune the TV to its Component video input channel (if you have difficulty finding your TV's Component input channel, see your TV's User's Manual, or see page 68 in this manual for additional information). When the TV is tuned to the component video input channel, tune the satellite receiver to the desired channel.

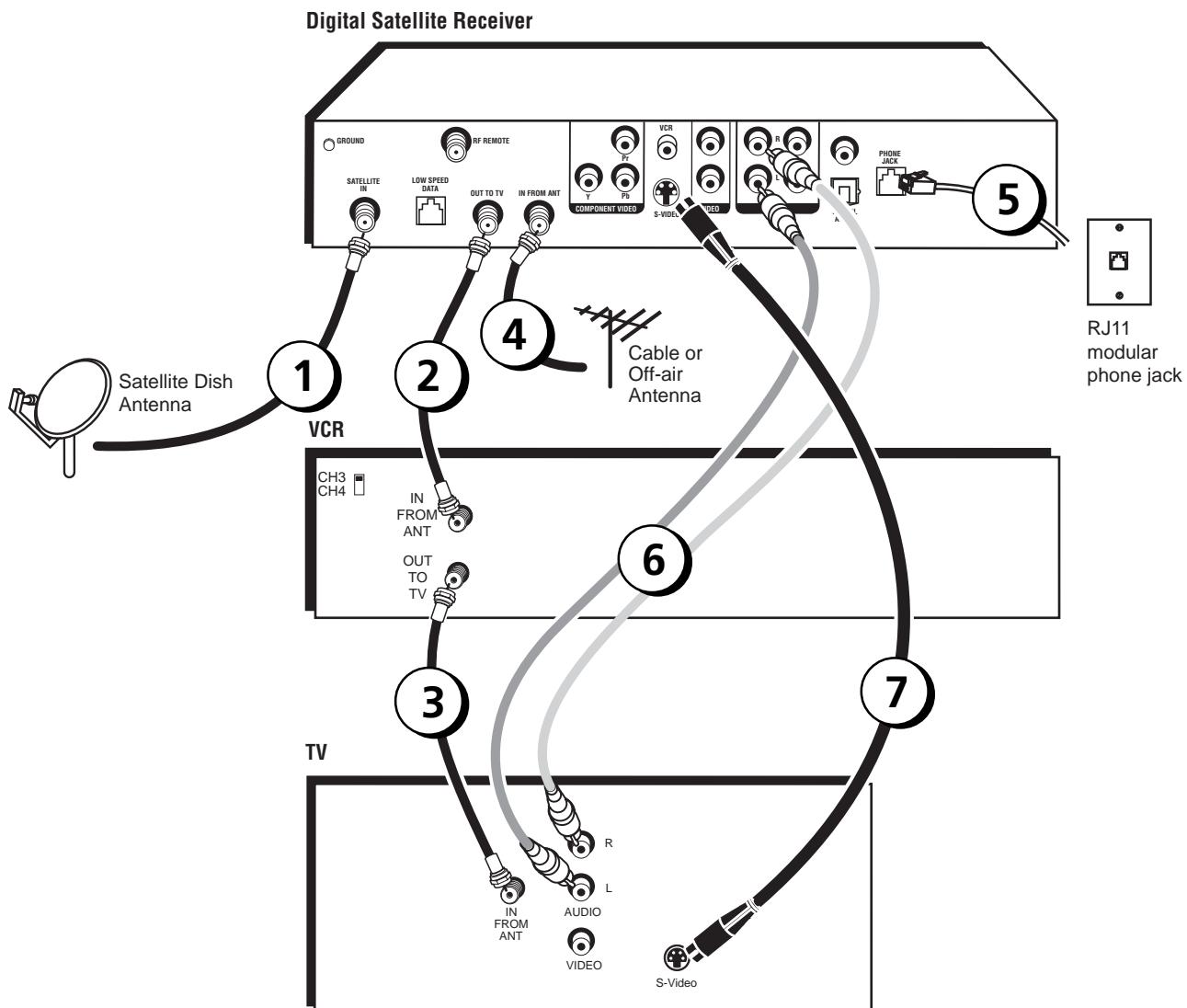
To record DIRECTV® programming:

Tune the satellite receiver to the desired channel. Then set your VCR to record on its video input channel. Begin recording as usual.

To view VCR recordings:

Tune the TV to its video input channel (if you have difficulty finding your TV's video input channel, see your TV's User's Manual, or see page 68 in this manual for additional information). Begin VCR playback as usual.

Setup & Connections



Note: Your VCR and TV back panels may not look exactly like the ones shown.

Very Good Connection

**Using S-Video and A/V jacks and cables to connect to the TV,
RF coaxial cables to connect to the VCR**

This connection provides better picture quality than A/V cables and is recommended for use with TVs that do not have component video input jacks. Remember to also connect audio cables since S-Video carries no sound.

What you will need:

- Two (2) RF coaxial cables
- Two (2) A/V cables
- One (1) S-Video cable
- One (1) telephone line cord
- Coaxial cable lines fed from a digital satellite antenna and a standard TV antenna (or cable feed)

Making the Connection

1. Connect the satellite dish antenna feed (RG-6 coaxial cable) to the SATELLITE IN jack on the satellite receiver.
2. Connect one end of an RF coaxial cable to the OUT TO TV jack on the satellite receiver, and the other end to the antenna INPUT jack on the VCR.

Note: If your VCR has Audio and Video input jacks, you can connect the satellite receiver to the VCR using A/V cables instead of the RF coaxial cable.

3. Connect one end of an RF coaxial cable to the antenna OUTPUT jack on the VCR, and the other end to the TV's antenna INPUT jack.
4. Connect the cable box or off-air antenna feed (RF coaxial cable) to the IN FROM ANT jack on the satellite receiver.
5. Connect one end of the supplied telephone line cord to the PHONE JACK on the back of the satellite receiver, and the other end to an RJ11-type modular phone jack (the most common type of phone jack).
6. Connect the ends of the supplied A/V cables to the satellite receiver's AUDIO output jacks, and the other ends to the corresponding AUDIO input jacks on the TV.

Note: Make sure you connect jacks corresponding to their labels. For example, AUDIO R output on the digital satellite receiver should be connected to AUDIO R input on the TV.

7. Connect one end of the supplied S-Video cable to the satellite receiver, and the other end to the S-Video input jack on the TV.

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Using Your Components

To watch DIRECTV® programming:

Tune the TV to its S-Video input channel (if you have difficulty finding your TV's S-Video input channel, see your TV's User's Manual or page 68 in this manual for more information). Then tune the satellite receiver to the desired channel.

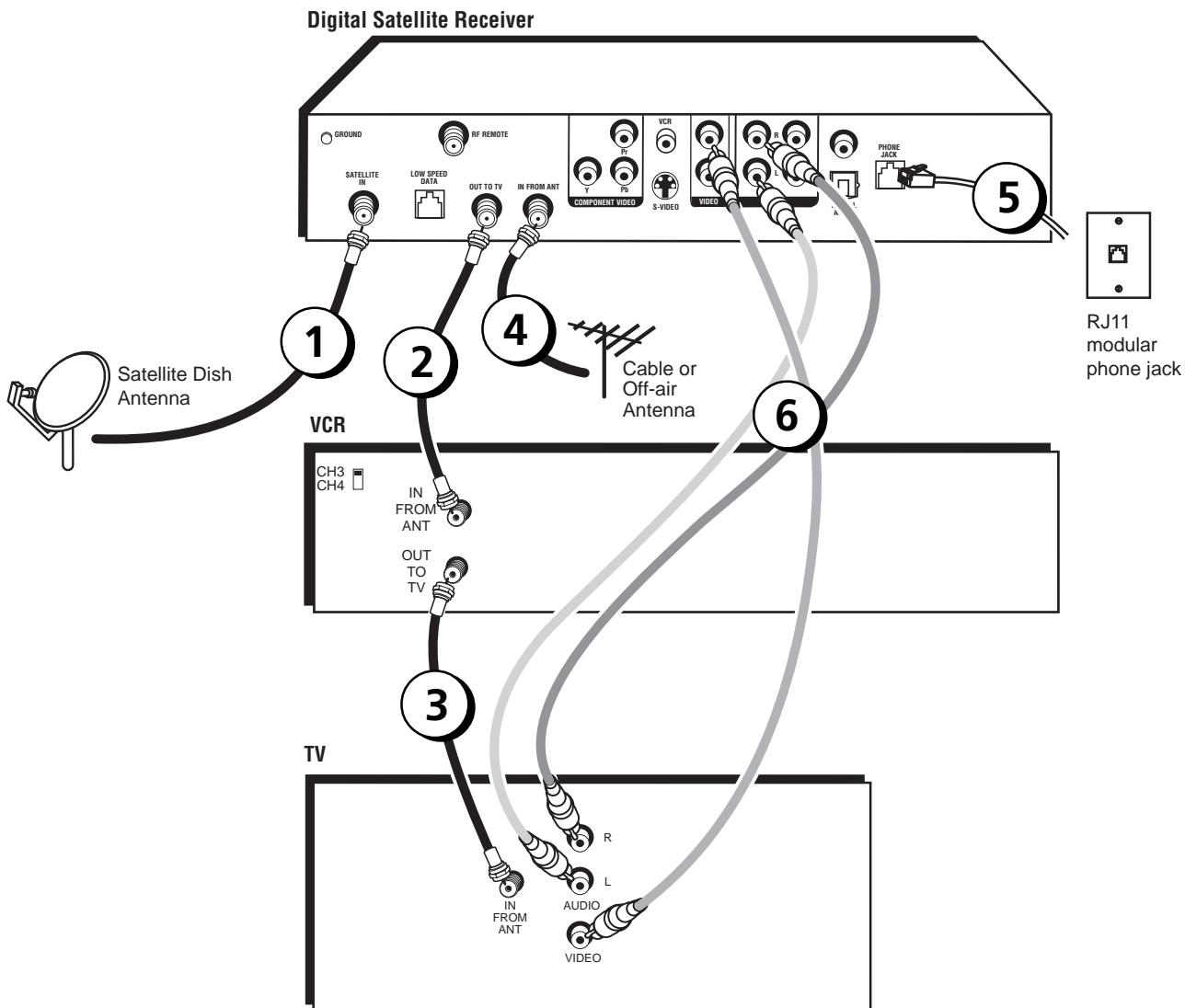
To record DIRECTV® programming:

Tune the satellite receiver to the desired channel. Then set your VCR to record on the proper input channel (video input channel if you connected the digital satellite receiver to the VCR using A/V jacks and cables, channel 3 or 4 if using RF coaxial cable to make the connection).

To view VCR recordings:

Tune the TV to channel 3 or 4 (whichever is set on the VCR as its output channel). Begin VCR playback as usual.

Setup & Connections



Note: Your VCR and TV back panels may not look exactly like the ones shown.

Good Connection

**Using A/V jacks and cables to connect to the TV,
RF coaxial cables to connect the VCR**

This connection provides better picture quality than only RF coaxial cable and is recommended for use with TVs that do not have component video or S-Video input jacks.

What you will need:

- Two (2) RF coaxial cables
- Three (3) Audio/Video cables
- One (1) telephone line cord
- Coaxial cable lines fed from a digital satellite antenna and a standard TV antenna (or cable feed)

Making the Connection

1. Connect the satellite dish antenna feed (RG-6 coaxial cable) to the SATELLITE IN jack on the satellite receiver.
2. Connect one end of an RF coaxial cable to the OUT TO TV jack on the satellite receiver, and the other end to the antenna input jack on the VCR.
- Note:** If your VCR has Audio and Video input jacks, you can connect the satellite receiver to the VCR using A/V cables instead of the RF coaxial cable.
3. Connect one end of an RF coaxial cable to the antenna output jack on the VCR, and the other end to the TV's antenna input jack.
4. Connect the cable box or off-air antenna feed (RF coaxial cable) to the IN FROM ANT jack on the satellite receiver.
5. Connect one end of the supplied telephone line cord to the PHONE JACK on the back of the satellite receiver, and the other end to an RJ11-type modular phone jack (the most common type of phone jack).
6. Connect the ends of the supplied A/V cables to the satellite receiver's AUDIO and VIDEO output jacks, and the other ends to the corresponding A/V input jacks on the TV.

Note: Make sure you connect jacks and cables corresponding to their labels. For example, AUDIO R output on the digital satellite receiver should be connected to AUDIO R input on the TV, VIDEO OUT to VIDEO IN, etc.

If your TV only has one audio input jack, use the satellite receiver's AUDIO L jack to make the connection.

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Using Your Components

To watch DIRECTV® programming:

Tune the TV to its video input channel (if you have difficulty finding your TV's video input channel, see your TV's User's Manual or refer to the instructions on page 68 in this manual). Then tune the satellite receiver to the desired channel.

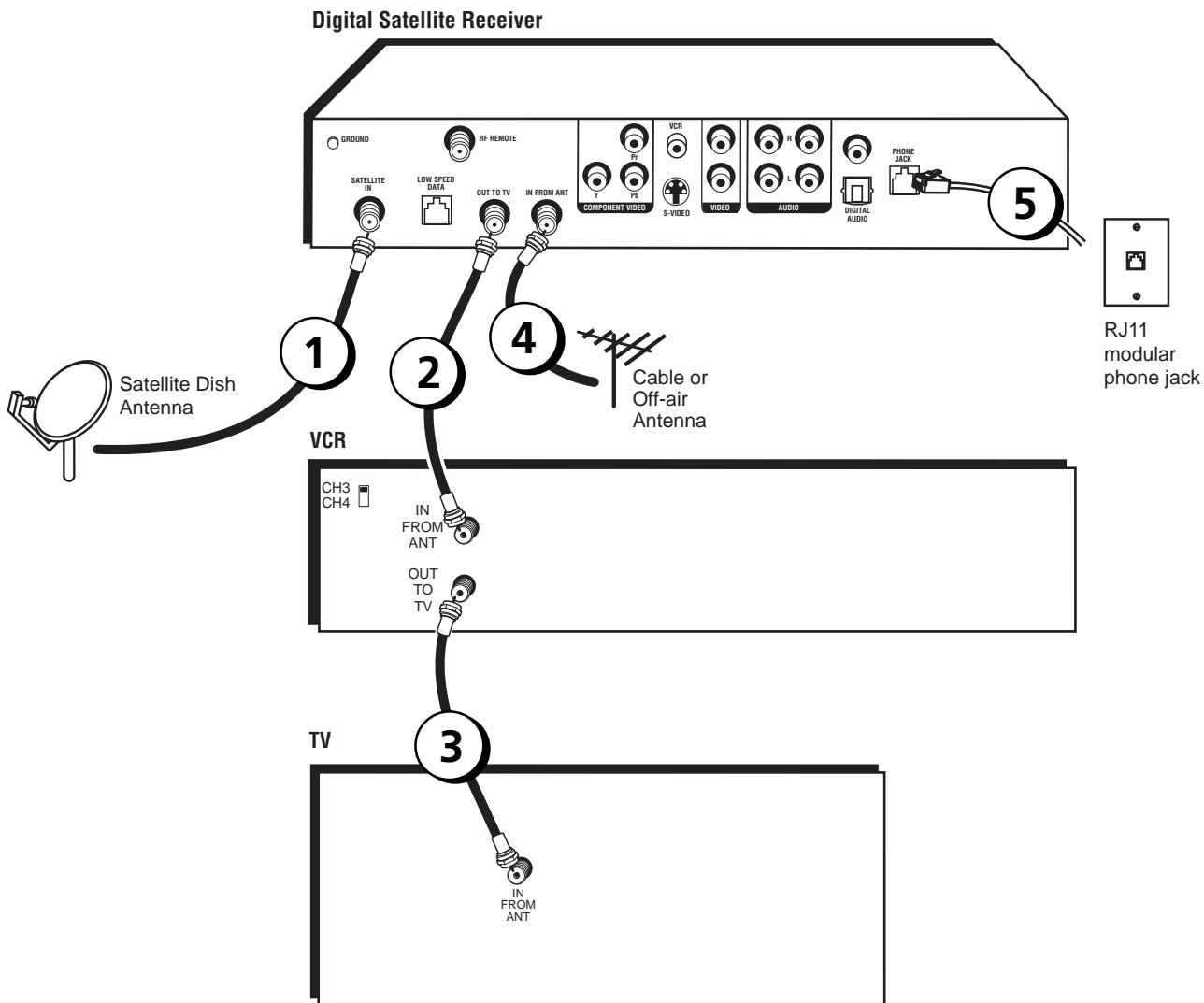
To record DIRECTV® programming:

Follow the steps in the previous step. Set your VCR to record on its proper input channel (either channel 3 or 4).

To view VCR recordings:

Tune the TV to channel 3 or 4 (whichever is set on the VCR as its output channel). Begin VCR playback as usual.

Setup & Connections



Note: Your VCR and TV back panels may not look exactly like the ones shown.

Basic Connection

Using RF coaxial cables for all connections

This connection provides standard picture quality. This connection is only recommended for use when the connected TV has no Component Video, S-Video, or A/V input jacks.

What you will need:

- Two (2) RF coaxial cables
- One (1) telephone line cord
- Coaxial cable lines fed from a digital satellite antenna and a standard TV antenna (or cable feed)

Making the Connection

1. Connect the satellite dish antenna feed (RG-6 coaxial cable) to the SATELLITE IN jack on the satellite receiver.
2. Connect one end of an RF coaxial cable to the OUT TO TV jack on the satellite receiver, and the other end to the antenna INPUT jack on the VCR.
3. Connect one end of an RF coaxial cable to the antenna OUTPUT jack on the VCR, and the other end to the TV's antenna INPUT jack.
4. Connect the cable box or off-air antenna feed (RF coaxial cable) to the IN FROM ANT jack on the satellite receiver.
5. Connect one end of the supplied telephone line cord to the PHONE JACK on the back of the satellite receiver, and the other end to an RJ11-type modular phone jack (the most common type of phone jack).

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Using Your Components

To watch DIRECTV® programming:

Tune the TV to the satellite receiver's output channel (either channel 3 or 4).

Note: You can change the satellite receiver's output channel by pressing the remote control's SAT button, then the MENU button, then select *System Setup*, then *System Options*, and finally select *Output Channel*. Use the remote control's arrow and OK buttons to highlight and select the desired output channel. Tune the TV to that channel to see the satellite receiver's picture.

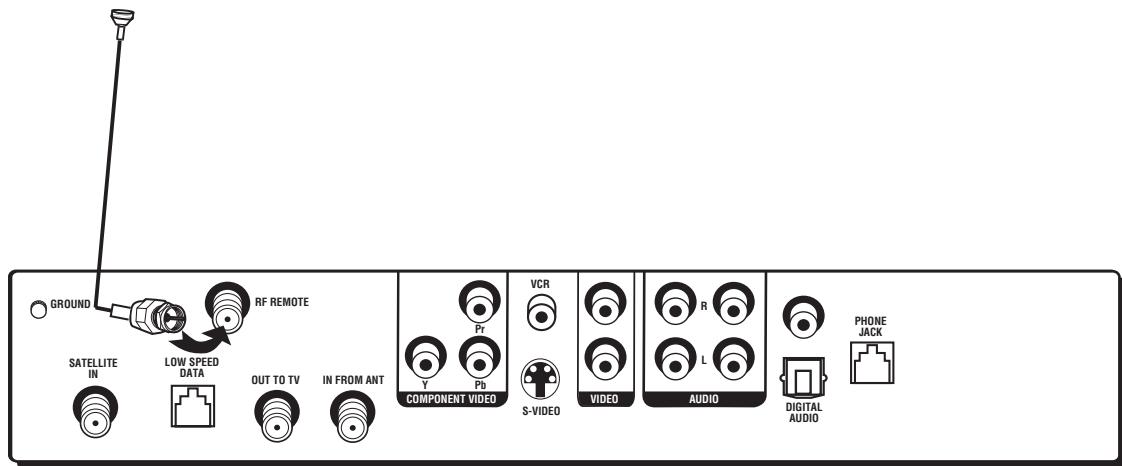
To record DIRECTV® programming:

Follow the directions in the previous step, then set your VCR to record on its proper input channel (channel 3 or 4 if using RF coaxial cable to make the connection, Video input channel if using A/V cables to connect the VCR to the satellite receiver).

To view VCR recordings:

Tune the TV to channel 3 or 4 (whichever is set on the VCR as its output channel). Begin VCR playback as usual.

Setup & Connections



RF Remote Antenna Connection

This connection allows your remote control to communicate with your digital satellite receiver even when you do not have line-of-sight to the receiver's front panel remote sensor.

What you will need:

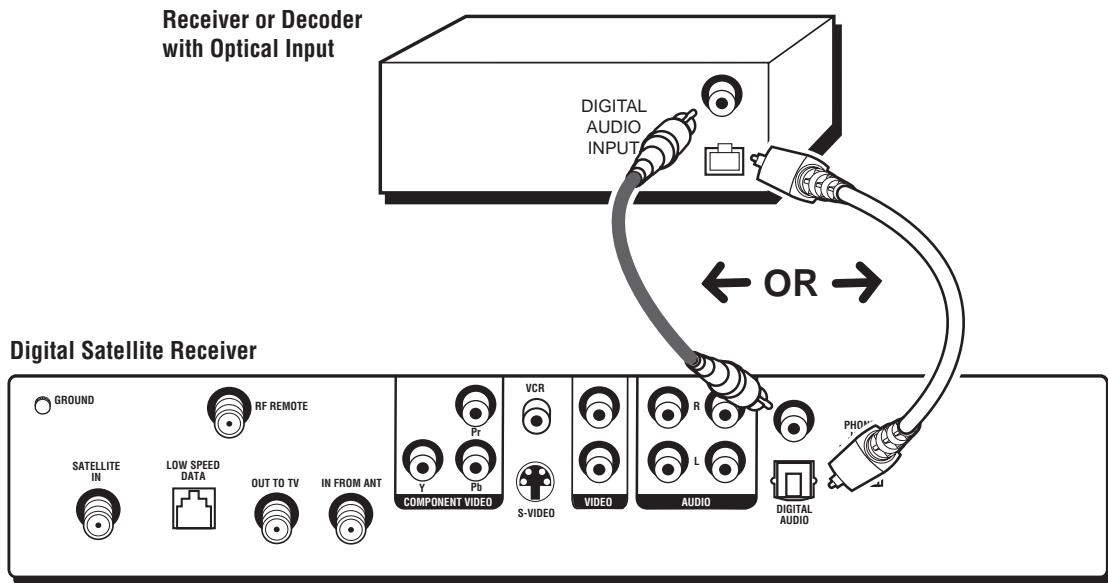
- One RF remote antenna

Making the Connection

Connect the RF remote antenna to the RF REMOTE jack on the back of your digital satellite receiver.

Using Your Component

As soon as the above connection is made, the RF feature of your remote is in effect. For information about programming the remote control to operate other devices, see page 26. If you have other RF remote controls, you may want to change the RF code to avoid conflicts. To change the RF code, see the instructions on page 28.



Advanced Audio (Digital Audio Output Connection)

Cables: Either Optical (SPDIF) or Coaxial Audio

Use this connection to take advantage of Dolby Digital[†] quality sound, when available.

Notes: your digital receiver back panel may not look exactly like the one pictured.

This satellite receiver's optical digital output jack fully complies with the international standard governing this type of jack (IEC958), and is designed for connection to a Dolby Digital (AC-3 or PCM) receiver or Dolby Digital (AC-3 or PCM) decoder. Older equipment, some of which is not fully compliant with IEC958, may not be compatible with the Dolby Digital bitstream. Such a connection using anything other than a PCM, Dolby Digital, or Dolby Pro Logic receiver or decoder could create a high noise level, causing damage to headphones or speakers.

Making the Connection

Connect one end of either an optical (SPDIF) cable or a coaxial digital audio cable (you do not have to connect both) to the corresponding DIGITAL AUDIO OUTPUT jack* on the satellite receiver, and to the corresponding digital audio input jack on a Dolby Digital receiver or decoder.

Using Your Component

After you connect your satellite receiver to a Dolby Digital receiver, you must select *Dolby Digital* from the *System Options* menu (press the remote control's MENU button, then select *System Setup*, then *System Options*, then highlight Dolby Digital). Use the remote control's arrow and OK buttons to highlight and select *Autoselect*, *PCM*, or *Dolby Digital* in order for the receiver to recognize the digital audio connection.

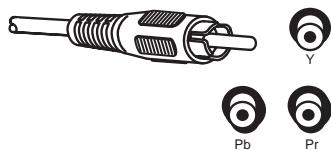
For more information on this feature, see the Dolby Digital entry starting on page 61.

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.

Setup & Connections

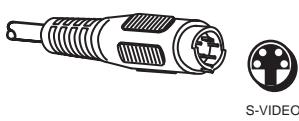
Cables and Jacks

Below is a description of the jacks and cables you can use to make connections. Not all cables come with your digital satellite system.



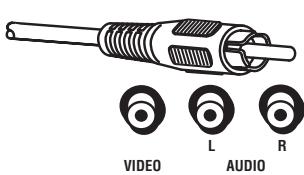
Component Video

Component Video provides this receiver's best picture quality. Component Video jacks break a standard picture signal down into three parts for superior imaging. Remember to connect the left and right audio cables because Component Video carries only the picture signal, not the sound.



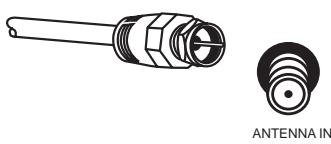
S-Video

S-Video jacks/cables provide very good picture quality. Remember to connect the left and right audio cables to the TV because the S-Video cable carries only the picture signal, not the sound.



Audio/Video (RCA-type)

Audio/Video (A/V) cables provide good picture quality and stereo sound, and should be used if your TV has no S-video or Component Video jacks. The digital satellite receiver's A/V jacks are color coded (yellow for video, red for right audio, and white for left audio). If your TV has only one input for audio (mono), connect it to the left (white) audio jack on the satellite receiver.



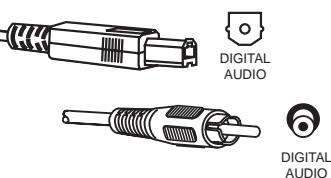
RF Coaxial Cable (F-type)

RF jacks provide good picture and mono sound quality. They should be used if A/V connections are not available on your TV. RF jacks are also used for off-air antenna, cable, and RF remote control antenna connections. The RF jacks on the receiver are labeled IN FROM ANT, OUT TO TV, and RF REMOTE. The coaxial cable supplied with your system is used to connect the receiver to your TV/VCR's antenna input jack.



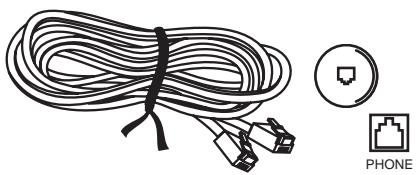
VCR Controller

The VCR Controller plugs into the VCR jack on the satellite receiver's back panel. Attach the other end of the cable to your VCR's remote control sensor.



Digital Audio Output (SPDIF or Coaxial Cable)

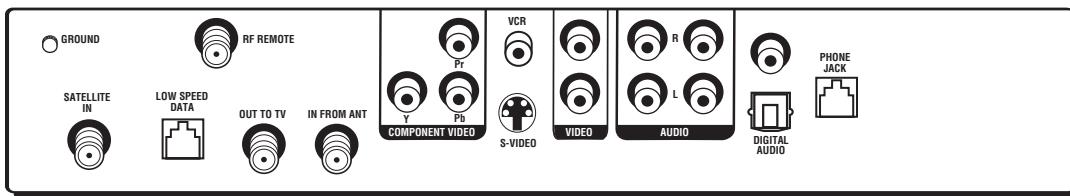
If you own a Dolby Digital receiver that uses an optical cable-type input, use an optical (SPDIF) cable to connect the satellite receiver to your Dolby Digital receiver or decoder for the best sound quality.



Telephone Jack and Cord

The telephone line cord is required to connect your satellite receiver to a telephone line if you choose to subscribe to *DIRECTV® programming. The phone line connection is used to periodically call out to DIRECTV. You will need an RJ11-type modulator jack (the most common type of phone jack) which might look like one of those pictured here. If you don't have a modular jack, call your local telephone company to find out how to get one installed.

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Satellite Receiver Back Panel

This diagram illustrates each of the back panel jacks found on your digital satellite receiver. When working with cables, be sure to connect corresponding OUTPUTS and INPUTS (Video OUT to Video IN, Right Audio OUT to Right Audio IN, etc.).

For more information on the function of the back panel jacks and many other features of your digital satellite receiver, press the MENU button and select *System Setup* from the Main menu, then select *System Index*.

Back Panel Jacks (in alphabetical order)

AUDIO (R and L) Audio cables offer better sound quality than RF coaxial cables. Connect a second set of audio cables to another component, such as a VCR or stereo.

COMPONENT VIDEO (Y P_r P_b) Provides this receiver's best picture quality surpassing that of S-Video, Audio/Video, and RF coaxial cables. Y P_r P_b jacks break a video signal down by three separate channels, providing this receiver's best picture quality.

DIGITAL AUDIO Connects the satellite receiver's audio to a Dolby Digital receiver or decoder. This audio connection provides the best sound quality. Use either the optical or the coaxial DIGITAL AUDIO output jacks (not both) when using component, S-Video, or A/V video outputs.

IN FROM ANT Connect a standard TV antenna or cable feed to the satellite receiver using this jack. You can then switch between the satellite receiver's signal and the TV/cable feed using the remote control's ANTENNA button to toggle between the two.

LOW SPEED DATA This port allows you to connect your digital satellite receiver to future services and accessories as they become available. A shielded cable and additional hardware may be required.

OUT TO TV Connects the satellite receiver to your TV or VCR using RF coaxial cable. This jack provides the most basic connection, carrying average sound and video quality.

PHONE JACK Connects the satellite receiver to a telephone line. The digital satellite receiver requires a telephone line connection to periodically communicate with your program provider.

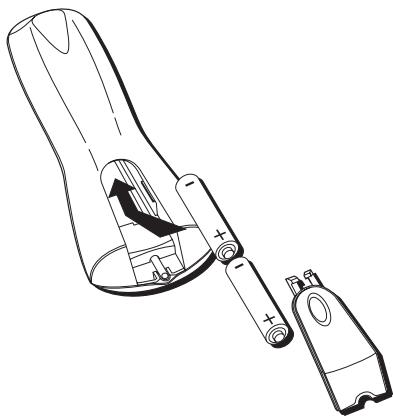
RF REMOTE This jack connects an antenna that allows the remote control to use both infrared (IR) for line-of-sight, and radio-frequency (RF) signals, which work through walls, to operate the satellite receiver.

SATELLITE IN Use to connect the satellite receiver to the satellite dish antenna.

S-VIDEO Provides better picture quality than VIDEO or RF coaxial cable jacks. If your TV has an S-Video jack, use it along with the audio jacks (S-Video only carries picture information, not sound) to connect to your TV.

VCR This jack allows the satellite receiver to control the VCR using an IR cable. The cable is attached above the VCR's remote control sensor. This connection is required for One-Touch Record and Timer recording features.

VIDEO Provides better picture quality than the OUT TO TV jack. Connect the second VIDEO jack to another device, such as a VCR. You must also connect the AUDIO cables when using the VIDEO connection.



Place Batteries in the Remote Control

Follow these steps whenever you need to install or change the batteries in your digital satellite receiver's remote control.

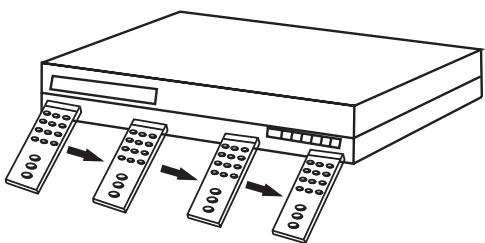
Note: When replacing old batteries, you may need to reprogram the remote control to operate other components.

1. Remove the cover from the battery compartment.
2. Insert batteries in the battery compartment, matching the + and – end of each battery.
3. Replace the cover.

Plug in and Turn On the Receiver

Plug the end of the power cord into the wall outlet. Be sure to insert the plug completely.

To turn on the satellite receiver, press the SAT button on the remote control or the ON•OFF button on the front panel. If your TV brand is RCA, GE, or Proscan, press the TV button on the remote control to turn on the TV. If your TV brand is not RCA, GE, or Proscan, see page 26 in the next section, *Using the Remote Control*, for details on programming the satellite receiver's remote control to operate your TV.



Locating the VCR's Infrared Remote Control Sensor

The VCR Controller must be affixed directly over the infrared remote control sensor on your VCR.

Some VCRs have a label that identifies the remote control sensor, but others do not. If the IR sensor is labeled on your VCR, affix the VCR Controller directly over the sensor. For VCRs that do not label the sensor, you can use the VCR's remote control to locate the VCR's sensor before affixing the VCR Controller cable.

To Find the VCR's Remote Control Sensor:

1. Hold the VCR's remote control so that it is touching the front of the VCR.
2. Slowly move the remote control over the front of the VCR while repeatedly pressing the remote control's power button.
3. When your VCR turns on/off, you have located the remote control sensor.

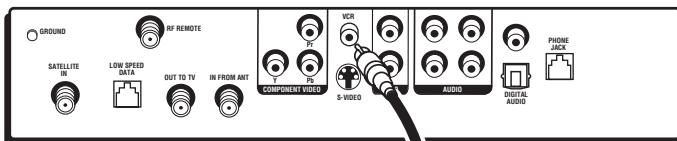
Note: To test the VCR controller's position, use a piece of vinyl tape to temporarily attach the VCR controller to the spot where you think the sensor is located. Then, follow the steps in *Selecting a VCR Type* on page 22, to see if the VCR Controller is positioned correctly.

Connect the VCR Controller

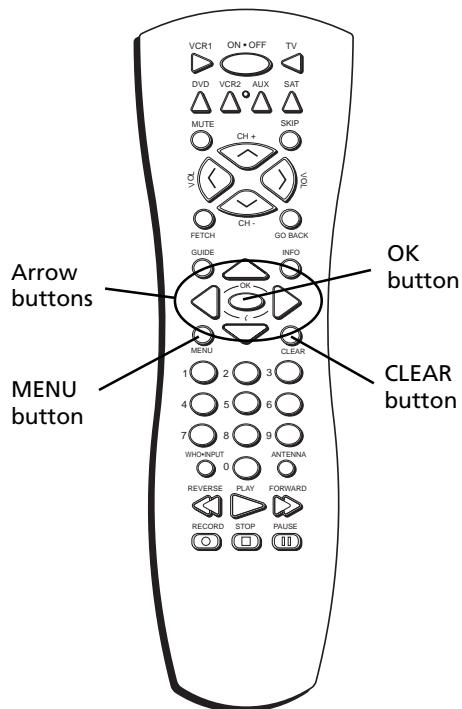
To use the One-Touch Record and Timer features, you need to attach the VCR Controller cable to the VCR and the satellite receiver.

1. Plug the VCR Controller into the VCR jack on the satellite receiver.
2. Affix the other end in front of the remote control sensor on your VCR.

Satellite Receiver (Back Panel)



VCR (Front Panel)



Using Highlight and Select

All on-screen menus can be handled the same way, using highlight and select navigation.

Highlight and select navigation has two steps:

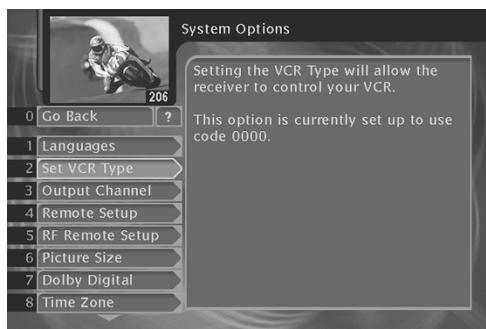
1. Use the arrow buttons (up, down, left, and right) on the remote control to highlight different choices on the screen.
2. Press OK to select the highlighted item.

Note: When a highlighted on-screen menu choice has a number beside it, you can also press the corresponding number button on the remote control to select it.

Once you know how to navigate on-screen menus, you can complete the *Assisted Setup* (see the next page) and explore the menu system.

To display the on-screen menu system, press the remote control's SAT button, then press the MENU button.

Note: Don't worry about getting stuck inside a menu. Pressing the CLEAR button on the remote control takes you out of the menu system and back to the program you were watching.



Selecting a VCR Type

In order to use the One-Touch Record and Timer features, you need to tell the satellite receiver which VCR brand you are using.

1. Tune the TV to its satellite receiver viewing channel (either 03, 04, or the TV's appropriate input channel depending on your connections).
2. Press MENU on the remote control to display the satellite receiver's Main menu.
3. Highlight and select number 7, *System Setup*.
4. Highlight and select number 3, *System Options*.
5. Highlight and select number 2, *Set VCR Type*.

Note: If you do not see your VCR manufacturer's name, select *Other* (at the bottom of the list) and enter the appropriate code from the VCR Remote Control code list on page 30.

6. Follow the on-screen instructions to ensure that you are using the correct code (if you need more assistance while in a menu, press the remote control's INFO button for details).

Note: Some VCR brands may not be capable of being controlled by the receiver.

Complete the Assisted Setup

If you installed your satellite dish antenna yourself, you may have already used the *Assisted Setup* to find dish-pointing coordinates, acquire and fine-tune the signal, and run a system test.

If you need to run the setup again, select *System Setup* from the Main menu, then select *Assisted Setup*.

To check your dish-pointing coordinates or run the signal strength meter, display the Main menu, then select *System Setup*, and finally *Dish Pointing*.

Order Programming

After you have installed your DIRECTV System, you should contact DIRECTV to order DIRECTV® programming.

With this receiver and the proper satellite dish antenna, you may be able to subscribe to local channels from DIRECTV in certain areas. Additional equipment may be required in some markets. Check with your retailer or visit DIRECTV.com for information on availability of local channels from DIRECTV in your area.

Activation of programming may be subject to credit approval and requires valid service address, social security number and/or major credit card. Programming subject to change. You must be physically located in the U.S. to receive DIRECTV service. DIRECTV services not available outside the U.S. DIRECTV® programming is sold separately and independently of DIRECTV System hardware. A valid programming subscription is required to operate DIRECTV System hardware. Activate your DIRECTV® programming today at 1-800-DIRECTV (1-800-347-3288).

Tip

*When you order programming, you need to know your access card number. To get the number, select *System Setup* from the Main menu, then *System Test*. Wait for the system to run all of its tests. The access card number is displayed at the end of the system test. Write the access card number in the space below for easy reference:*

Using the Remote Control

Chapter Overview:

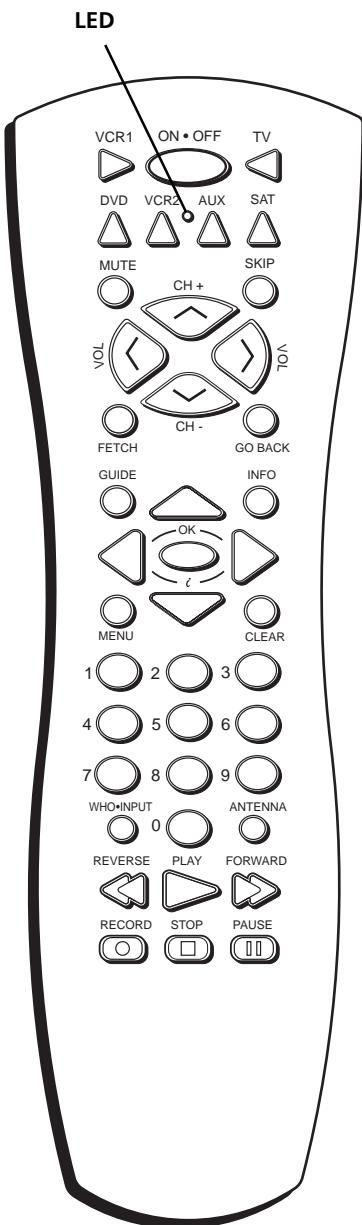
- Remote Control Buttons
- Buttons on Top of the Digital Satellite Receiver
- Programming the Remote Control
- Using the Remote Control to Operate Another Component
- Modes of Operation
- Controlling a Second Satellite Receiver
- Changing the RF Remote Control Code
- Remote Control Codes

Changing Entertainment. Again.



Using the Remote Control

Remote Control Buttons in Alphabetical Order



ANTENNA In TV mode, lets you toggle between the satellite and standard TV/cable signals when the satellite receiver is connected to the TV using the OUT TO TV jack. In VCR mode, ANTENNA functions as a TV/VCR input button.

Arrows Use the navigation arrows to move the on-screen highlight up, down, left, or right.

AUX Turns on a compatible RCA amplifier/receiver or audio/video receiver. This button can be programmed to control an RCA, GE, or Proscan auxiliary component.

CH + (up) / - (down) Use to scan up and down through the channels in the current channel list. If you are in the program guide or menu system, use the CH +/- buttons to page up and down a screen at a time.

CLEAR Removes the on-screen displays and returns you to normal viewing.

Digit Buttons (0 - 9) Used to tune directly to a specific channel. If you are in the menu system, use the digits to select menu items. In the menu system, use 0 to return to the previous menu screen.

DVD Tells the remote to operate the DVD player. Note that this button is only functional with RCA, GE, and Proscan DVD players.

FETCH Displays the Fetch menu with up to eight different actions, or executes a single task- depending on the preferences set.

GO BACK Moves you back and forth between the last two selected channels. In the menu system, returns you to the previous screen.

GUIDE Brings up the program guide. Subsequent presses of the GUIDE button switch between the Detail and Grid guide formats.

INFO Brings up the on-screen channel banner, password challenge, or purchase offer screen. In the program guides, press to get information about the highlighted program or channel. In the menu system, this button displays context-sensitive help for highlighted control elements.

LED (Light-Emitting Diode) This light is illuminated with each valid button press. When programming the remote control, it flashes or turns on or off to indicate programming status.

MENU Displays the Main menu. When you are using the remote control to operate an RCA, GE, or Proscan VCR (the remote is in VCR mode), the MENU button functions as a Program button.

MUTE When the remote is programmed to control a TV, this button reduces the TV's volume to its minimum level. Press again to restore the volume.

OK/i (interactive) Selects a highlighted choice if you are in the menu system.

Press the OK button when the DIRECTV INTERACTIVE™ icon (i) appears during interactive programs and commercials. Pressing OK will display more information and offer the chance to interact with what is displayed on screen.

Using the Remote Control

ON•OFF Turns the component you are controlling on or off. When pressed twice within two seconds, all components that are on will be turned off (this feature only works with most RCA, GE, and Proscan products). You can also use the ON•OFF button on the top (front panel) of the digital satellite receiver to turn the receiver on or off.

SAT Tells the remote to control the digital satellite receiver.

SKIP Used to activate the commercial skip mode which activates an on-screen timer. This feature allows you to change channels (during a commercial break, for example), then be returned to the original channel that was active when skip was first pressed when the timer reaches zero. Each press of the SKIP button increases the timer by 30 seconds.

Transport Buttons (REVERSE, PLAY, FORWARD, RECORD, STOP, PAUSE) When in on-screen guides, PLAY advances the display two hours, FORWARD advances the display 12 hours and REVERSE moves time backward 12 hours. When the remote control is programmed, these buttons are also used to control an auxiliary component, such as a VCR or laserdisc player. Note that if your VCR Controller is connected, the RECORD button can be used to schedule a timer recording when using the Program Guide or to begin recording while watching a program (in VCR mode).

TV When programmed, tells the remote to control the TV.

VCR1 When programmed, tells the remote to control the VCR.

VCR2 When programmed, tells the remote to control a second VCR.

VOL down and up When programmed, adjusts the audio volume of your TV.

WHO•INPUT In TV mode, press WHO•INPUT to toggle through the available Video Input channels. In SAT mode, press WHO•INPUT to select available channel lists.

Top of the Digital Satellite Receiver

This diagram illustrates the buttons on the top (also referred to as the front panel) of the digital satellite receiver. For more information on the function of the front panel buttons and many other features of your digital satellite receiver, press the MENU button and select *System Setup* from the Main menu, then select *System Index*.



Front Panel Buttons (Left to Right)

ON•OFF Use to turn your digital satellite receiver on for viewing or off when you are not viewing it. Your receiver will still be able to download software upgrades and receive messages from program providers when it is off.

MENU•OK Use this button to display the Main menu. If you are already in the menu system, pressing this button selects the highlighted item.

Arrows Use the navigation arrows to move the on-screen highlight up, down, left, or right.

Channel Down and Up When you're watching TV, use these buttons to change the channel.

INFO Use this button to display the channel banner, password challenge, or purchase offer screen. Press twice to display additional program information, when available. While in the menu system INFO also summons context sensitive help about a highlighted menu item.

Using the Remote Control

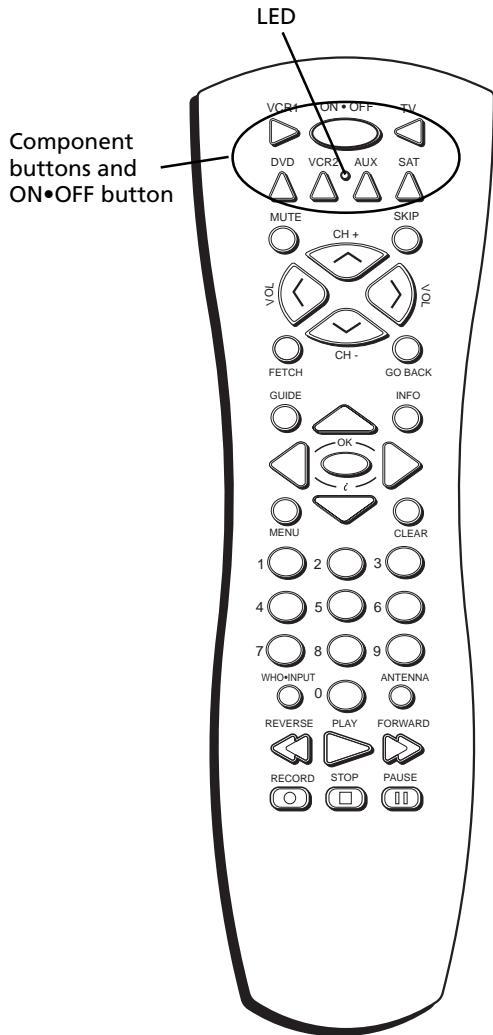
Programming the Remote Control

The digital satellite receiver's remote can be programmed to control most brands of remote controllable components. The remote is already programmed to control most RCA, GE and Proscan components; it may need to be programmed to control other manufacturers' brands.

Testing the Remote Control

To determine whether the universal remote control needs to be programmed, turn a component on, such as a VCR, point the remote at the VCR, and press the VCR button. Then press ON•OFF or CH + or CH - to see if the VCR responds to the remote commands. If not, the remote needs to be programmed.

There are two ways to program the remote control: Automatic Code Search or Direct Entry.



Using Automatic Code Search

The following instructions can be used to program the remote to control many of the components connected to your TV. If you want to exit the automatic code search without programming any of your components, press the CLEAR button until the LED (light) turns off.

Note: The remote control may not be able to operate all models of all brands.

1. Turn on the component you want to control (VCR, TV, etc.)
2. Press and hold the button you want to program. While holding the component button, press and hold ON•OFF until the LED on the remote control turns on, then release both buttons.
- Note that the AUX button can only be programmed using direct code entry. See "Using Direct Entry," later in this section, for details.
3. Point the remote at the component, press and release PLAY, then wait five seconds or until the LED stops flashing.

At this point the remote control is searching for the correct code to program. If, after five seconds, the component you want to control does not turn off, press and release PLAY again to tell the remote to search the next set of codes.

Continue pressing and releasing PLAY until the component turns off or you have searched through all of the codes. There are 20 total sets of codes. If the component does not turn off after pressing PLAY 20 times, then the remote cannot control that particular component.

If the component you want to control *does* turn off:

1. Press and release REVERSE, then wait two seconds. Repeat this step until the component turns back on.
2. To finish, press and hold STOP until the LED on the remote control turns off.

Using Direct Entry

1. Turn on the component to be programmed.
2. Look up the brand and code number(s) for the component on the code list at the end of this section.
3. On your remote control, press and hold the component button you want to program.
4. While pressing the component button, enter a code from the code list.
5. Release the component button, and then press ON•OFF to see if the component responds to the remote control commands. If it doesn't, try pressing the component button and then ON•OFF again.
6. If you get no response, repeat these steps using the next code listed for your brand, until the component responds to the remote control commands.

Operating Other Components

Once the remote has been programmed successfully, you are ready to use it to operate your components.

One Button Recording

If your remote is programmed to operate a VCR, you only need to press the RECORD button to begin recording from video.

To Operate the Component:

1. Press the component button (TV, VCR1, SAT, VCR2, or AUX) to set the remote to control the component.
2. Press ON•OFF to turn the component on or off.
3. Use the remote control buttons that apply to that component.

Modes of Operation

Because this universal remote can control several different components (DVD player, VCR, cable box, etc.) it uses operational modes triggered by the component buttons. For example, if you want the remote control to operate the TV, press the TV button to put the remote into TV mode. If you want to play a videotape, press VCR1 then PLAY (pointing the remote at the VCR).

Controlling a Second Satellite Receiver

The remote can control two satellite receivers. From the Main menu, select *System Setup*, then *System Options*, then *Remote Setup*. Then follow the on-screen instructions and enter the appropriate code from the Satellite Receiver list at the end of this section. By default, the SAT button is used to control the first satellite receiver and the AUX button is used to control the second satellite receiver.

If your second receiver is an RCA, GE, or Proscan and you want to control it using the AUX button, use code 5001. Code 5000 is used by the SAT button.



Changing the RF Remote Control Code

Your remote control is equipped with Radio Frequency (RF) functionality. This means that the remote control can operate the digital satellite receiver using both IR (infrared) signals and RF signals.

IR signals require line-of-sight to the receiver's front panel remote sensor. RF signals can operate the receiver from other parts of your house—even through walls.

Installing your RF remote control antenna will increase the range of your satellite receiver's remote control signal. See page 16 in the Setup and Connections section for more information.

If you are experiencing interference from other RF remote controls or devices, you may need to change the RF remote control code to avoid conflicts.

To change the Satellite Receiver's RF Code:

1. Select *System Setup* in the Main menu.
2. Select *System Options*.
3. Select *RF Remote Setup*.
4. Choose a number between 000 and 255. Follow the on-screen instructions to enter it as your RF remote control code.

Remote Control Codes

TV

Abex	1172	Loewe	1062	Supreme	1002
Admiral	1001, 1173, 1211	Logik	1083	Sylvania	1004, 1006, 1008, 1019, 1062, 1068, 1069, 1075, 1076, 1077, 1088, 1116, 1161, 1183
Adventura	1174	Luxman	1004, 1006	Symphonic	1033, 1038, 1189
Aiko	1016	LXI	1000, 1006, 1049, 1062, 1071, 1072, 1073, 1162, 1181, 1207	Tandy	1173
Akai	1002	Magnavox	1004, 1006, 1008, 1019, 1062, 1068, 1069, 1075, 1076, 1077, 1088, 1130, 1131, 1132, 1133, 1134, 1183, 1219, 1235	Tatung	1003
Alleron	1046	Majestic	1083	Technics	1054
Amtron	1038	Marants	1062	Techwood	1004, 1006, 1054
Anam National	1003, 1038, 1192, 1193, 1194	Marantz	1004, 1006, 1062, 1078	Teknika	1004, 1005, 1006, 1008, 1012, 1013, 1014, 1016, 1038, 1046, 1076, 1082, 1083, 1105, 1170, 1171
AOC	1004, 1005, 1006, 1007, 1175, 1176, 1195	Megatron	1006, 1059	Telecaption	1117
Audiovox	1038	MEI	1176	TMK	1004, 1006
Belcor	1004	Memorex	1001, 1006, 1082, 1083, 1162	Toshiba	1049, 1071, 1072, 1089, 1105, 1109, 1117, 1118, 1160, 1162
Bell & Howell	1001, 1083, 1162	MGA	1004, 1005, 1006, 1019, 1022, 1051, 1079, 1080, 1082	Totevision	1171
Bradford	1038	Midland	1054, 1151, 1171, 1172, 1181	Universal	1052, 1087
Brokwood	1004	Minutz	1052	Victor	1066, 1182
Candle	1004, 1006, 1008, 1174	Mitsubishi	1004, 1005, 1006, 1019, 1022, 1051, 1079, 1080, 1081, 1082, 1125	Vidtech	1004, 1005, 1006
Celebrity	1002	Montgomery Ward	1083	Viking	1174
Centurion	1009	Motorola	1003, 1173	Wards	1000, 1001, 1004, 1005, 1006, 1019, 1024, 1033, 1046, 1052, 1062, 1068, 1069, 1075, 1076, 1083, 1087, 1088, 1095, 1119, 1120
Citizen	1004, 1006, 1008, 1016, 1038, 1105, 1171, 1174, 1177	MTC	1004, 1005, 1006, 1105	Yamaha	1004, 1005, 1006, 1019
Colortyme	1004, 1006, 1010	Multitech	1038	Zenith	1004, 1083, 1151, 1152, 1153, 1154, 1210, 1217
Concerto	1004, 1006	Multivision	1084		
Contec/Cony	1012, 1013, 1014, 1038	NAD	1006, 1071, 1072, 1185		
Craig	1038	NEC	1003, 1004, 1005, 1006, 1200		
Crown	1038, 1171	Nikko	1006, 1016		
Curtis Mathes	1000, 1004, 1006, 1015, 1105, 1162, 1171, 1212	NTC	1016		
CXC	1038	Onwa	1038		
Daewoo	1004, 1005, 1006, 1016, 1017, 1018, 1127, 1171, 1196	Optimus	1185		
Daytron	1004, 1006, 1171	Optonica	1095, 1173		
Dimensia	1000	Orion	1035, 1191		
Dumont	1004, 1151	Panasonic	1003, 1054, 1062, 1170, 1214		
Dynatech	1178	Philco	1003, 1004, 1005, 1006, 1008, 1012, 1019, 1062, 1068, 1069, 1075, 1077, 1183		
Electroband	1002	Philips	1003, 1004, 1008, 1012, 1019, 1062, 1068, 1069, 1075, 1076, 1086, 1087, 1088, 1089		
Electrohome	1003, 1004, 1006, 1019, 1020, 1022	Pilot	1004, 1171		
Emerson	1004, 1006, 1012, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1041, 1042, 1043, 1044, 1046, 1047, 1123, 1124, 1162, 1171, 1177, 1179, 1191, 1208	Pioneer	1004, 1006, 1090, 1091, 1092, 1179, 1185		
Envision	1004, 1006	Portland	1004, 1005, 1006, 1016, 1171		
Fisher	1048, 1049, 1051, 1162, 1180	Price Club	1105		
Fujitso	1046	Prism	1054		
Funai	1038, 1046	Proscan	1000, 1181		
Futuretec	1038	Proton	1004, 1006, 1012, 1093		
GE	1000, 1003, 1004, 1006, 1022, 1052, 1054, 1055, 1087, 1164, 1165, 1166, 1167, 1168, 1181, 1213	Pulsar	1004, 1151		
Gibralter	1004, 1151	Quasar	1003, 1054, 1070, 1094		
Goldstar	1004, 1005, 1006, 1012, 1019, 1056, 1057, 1058, 1155, 1156, 1171, 1172	Radio Shack/Realistic	1000, 1004, 1006, 1012, 1038, 1049, 1095, 1162, 1171, 1172		
Grundy	1038, 1046, 1171	RCA	1000, 1003, 1004, 1005, 1006, 1007, 1019, 1096, 1098, 1099, 1100, 1101, 1102, 1103, 1129, 1179, 1181, 1187, 1188, 1190, 1202, 1203, 1215, 1233		
Hallmark	1004, 1006	Runco	1151		
Harvard	1038	Sampo	1004, 1006, 1171, 1172		
Hitachi	1004, 1006, 1012, 1013, 1014, 1059, 1060, 1061, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1148, 1150, 1179, 1198, 1199	Samsung	1004, 1005, 1006, 1012, 1015, 1019, 1104, 1105, 1106, 1171, 1172, 1204		
IMA	1038	Samsux	1171		
Infinity	1062	Sansui	1191		
JCPenney	1000, 1004, 1005, 1006, 1008, 1022, 1052, 1054, 1058, 1063, 1064, 1072, 1087, 1105, 1128, 1171, 1172, 1181, 1201	Sanyo	1004, 1048, 1049, 1080, 1107, 1108, 1162, 1169, 1180		
Janeil	1174	Scotch	1006		
JBL	1062	Scott	1004, 1006, 1012, 1024, 1035, 1038, 1046		
JCB	1002	Sears	1000, 1004, 1006, 1013, 1014, 1019, 1046, 1048, 1049, 1051, 1066, 1071, 1072, 1109, 1110, 1162, 1180, 1181, 1189		
Jensen	1004, 1006	Sharp	1004, 1006, 1012, 1029, 1095, 1111, 1112, 1113, 1122, 1171, 1173		
JVC	1012, 1013, 1014, 1054, 1060, 1065, 1066, 1067, 1157, 1158, 1159, 1182	Shogun	1004		
Kawasho	1002, 1004, 1006	Signature	1001, 1083, 1115		
Kaypani	1175	Simpson	1008		
Kenwood	1004, 1006, 1019	Sony	1002, 1205, 1216, 1218		
Kloss Novabeam	1068, 1069, 1174, 1183	Soundesign	1004, 1006, 1008, 1038, 1046		
KTV	1038, 1070, 1171, 1177	Squareview	1189		
		SSS	1004, 1038		
		Starlite	1038		
		Supre-Macy	1174		

VCR

Admiral	2132
Zaiko	2027
Aiwa	2026
Akai	2003, 2004, 2005, 2007, 2008, 2111, 2112, 2113
American High	2021
Asha	2013
Audio Dynamics	2009, 2010
Audiovox	2014
Bell & Howell	2011
Beaumark	2013
Broksonic	2012, 2025
Calix	2014
Candle	2013, 2014, 2015, 2016, 2017, 2018, 2019
Canon	2021, 2022, 2114
Capehart	2020, 2110
Carver	2062
CCE	2027, 2061
Citizen	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2027
Colortyme	2009
Colt	2061
Craig	2013, 2014, 2023, 2061
Curtis-Mathes	2000, 2009, 2013, 2016, 2018, 2021, 2022, 2024, 2115, 2131
Cybernex	2013
Daewoo	2015, 2017, 2019, 2025, 2026, 2027, 2028, 2110
Daytron	2110
DBX	2009, 2010
Dimensia	2000, 2131
Dynatech	2026
Electrohome	2014, 2029
Electrophonic	2014
Emerson	2012, 2014, 2015, 2021, 2024, 2025, 2026, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2044, 2045, 2046, 2047, 2065, 2113, 2116, 2117, 2130
Fisher	2011, 2023, 2048, 2049, 2050, 2051, 2052, 2118
Fuji	2021, 2119
Funai	2026
Garrard	2026
GE	2000, 2001, 2013, 2021, 2022, 2053, 2115, 2120, 2131
Goldstar	2009, 2014, 2018, 2054
Gradiente	2026
Harley Davidson	2026
Harman Kardon	2009
Harwood	2061
Headquarter	2011

Code List

Remote Control Codes (Cont.)

VCR (Cont')

Hitachi	2055, 2056, 2057, 2107, 2111, 2120, 2122
Hi-Q	2023
Instant Replay	2021
JCL	2021
JC Penney	2009, 2010, 2011, 2013, 2014, 2021, 2022, 2055, 2056, 2058, 2059, 2060, 2107, 2118
Jensen	2055, 2056, 2111
JVC	2009, 2010, 2011, 2018, 2111, 2123
Kenwood	2009, 2010, 2011, 2016, 2018, 2058, 2111, 2123
KLH	2061
Kodak	2014, 2021
Lloyd	2026
Logik	2061
LXI	2014
Magnavox	2021, 2022, 2062, 2063, 2104, 2105, 2108, 2124
Magnin	2013
Marantz	2009, 2010, 2011, 2016, 2018, 2021, 2062, 2064
Marta	2014
Masushita	2021
MEI	2021
Memorex	2011, 2013, 2014, 2021, 2023, 2026, 2132
MGA	2029, 2065, 2113
MGN Technology	2013
Midland	2053
Minolta	2055, 2056, 2107
Mitsubishi	2029, 2055, 2056, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2106, 2113, 2123
Montgomery Ward	2075, 2132
Motorola	2021, 2132
MTC	2013, 2126
Multitech	2013, 2016, 2026, 2053, 2061
NEC	2009, 2010, 2011, 2016, 2018, 2064, 2076, 2078, 2079, 2111, 2123
Nikko	2014
Noblex	2013
Olympus	2021
Optimus	2014, 2132
Optonica	2096
Panasonic	2021, 2022, 2109, 2125, 2126, 2127
Pentax	2016, 2055, 2107, 2120
Pentex Research	2018
Philco	2021, 2022, 2062, 2063
Philips	2021, 2062, 2096, 2124
Pilot	2014
Pioneer	2010, 2055, 2080, 2081, 2123
Portland	2016, 2017, 2019, 2110
Proscan	2000, 2001, 2131
Protec	2061
Pulsar	2104
Quarter	2011
Quartz	2011
Quasar	2021, 2022, 2125
RCA	2000, 2001, 2003, 2013, 2021, 2055, 2056, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2107, 2115, 2120, 2125, 2131, 2132
Radioshack/Realistic	2011, 2013, 2014, 2021, 2022, 2023, 2026, 2029, 2049, 2050, 2096, 2132
Radix	2014
Randex	2014
Ricoh	2128
Runco	2104
Samsung	2005, 2013, 2015, 2033, 2053, 2112
Sankyo	2104, 2132
Sansui	2010, 2092, 2111, 2123
Sanyo	2011, 2013, 2023
Scott	2012, 2015, 2025, 2032, 2038, 2065, 2093, 2116
Sears	2011, 2014, 2021, 2023, 2048, 2049, 2050, 2051, 2055, 2056, 2107, 2118
Sharp	2017, 2029, 2094, 2095, 2096, 2097, 2131
Shintom	2004, 2056, 2061, 2098
Shogun	2013
Signature	2131
Singer	2021, 2061, 2128
Sony	2004, 2098, 2099, 2119

STS

Sylvania	2021, 2022, 2026, 2062, 2063, 2065, 2124
Symphonic	2026
Tandy	2011
Tashiko	2014
Tatung	2111
TEAC	2026, 2085, 2111
Technics	2021, 2109
Teknika	2014, 2021, 2026, 2100, 2129
TMK	2013, 2024, 2047
Toshiba	2015, 2049, 2051, 2055, 2065, 2093, 2116
ToteVision	2013, 2014
Unitech	2013
Vector Research	2009, 2010, 2015, 2016
Victor	2010
Video Concepts	2009, 2010, 2015, 2016, 2113
Videosonic	2013
Wards	2013, 2014, 2015, 2021, 2023, 2026, 2029, 2055, 2056, 2061, 2096, 2101, 2102, 2103, 2107, 2116, 2132
XR-1000	2021, 2026, 2061
Yamaha	2009, 2010, 2011, 2018, 2111
Zenith	2004, 2098, 2104, 2119, 2128

Satellite Receivers

(Programmable for the SAT•CABLE and AUX buttons)

Alphastar	5079
Chapparal	5056, 5057
Dishnet	5078
Drake	5056, 5059
Echostar	5089
GE	5000, 5001
General Instruments	5060, 5061, 5062
Panasonic	5075
Primestar	5076
Proscan	5000, 5001
RCA	5001
Realistic	5063
Sony	5072
STS1	5064
STS2	5065
STS3	5066
STS4	5067
Toshiba	5068, 5073
Uniden	5069, 5086

Cable Boxes

(Programmable for the SAT•CABLE and AUX buttons)

ABC	5002, 5003, 5004, 5005, 5006, 5053
Antronix	5008, 5009
Archer	5008, 5009, 5010
Cabletenna	5008
Cableview	5008
Colour Voice	5012, 5013
Comtronics	5014
Contec	5016
Eastern	5017
Garrard	5011
GE	5000, 5001
GC Electronics	5009
Gemini	5018, 5019
General Instrument	5003
Hamlin	5020, 5021, 5022, 5028, 5035, 5045
Hitachi	5003
Jerrold	5003, 5018, 5023, 5024, 5046, 5053
Magnavox	5025
Memorex	5026
Movie Time	5027
NEC	5005
NSC	5027
Oak	5016, 5029
Panasonic	5048, 5052
Philips	5011, 5012, 5013, 5019, 5025, 5030, 5031, 5032
Pioneer	5033, 5034
Proscan	5000, 5001
RCA	5000, 5001, 5007, 5047, 5049, 5052
Realistic	5009
Regal	5022, 5035
Regency	5017
Rembrandt	5003
Samsung	5034
Scientific Atlanta	5006, 5036, 5037, 5038
Signal	5018
Signature	5003
Sprucer	5052
Standard Components	5039, 5044
Starcom	5018, 5053
Stargate	5018
Starquest	5018
Tandy	5040
Teleview	5014
Tocom	5004, 5023
Tusa	5018
TV86	5027
Unika	5008, 5009
United Cable	5053
Universal	5008, 5009, 5010
Viewstar	5025, 5027, 5040
Zenith	5050, 5051

DVD Codes

(Programmable for the DVD and AUX buttons)

Aiwa	3009
Hitachi	3008
JVC	3002, 3010
Konka	3011, 3012
Magnavox	3003
Mitsubishi	3004
Panasonic	3013
Phillips	3003, 3019, 3021, 3022
Pioneer	3005
RCA	3000, 3001
Sanyo	3014
Shinco	3001
Sony	3006, 3015, 3016
Toshiba	3007, 3017, 3020
Zenith	3018

Audio Codes

(Programmable for the AUX button only)

RCA and Dimensia

AM/FM	4003, 4270
AUX	4004
Phono	4005
Tape	4006
CD	4007, 4190, 4211

Receivers

Aiwa	4261, 4262, 4263, 4264, 4265, 4266, 4267, 4277
Denon	4283
Harman Kardon	4276
JVC	4268
JVL	4276
Kenwood	4269
Onkyo	4278
Optimus	4284
Panasonic	4279, 4280
Pioneer	4275
RCA	4270
Sherwood	4282
Sony	4271, 4272, 4281
Technics	4279, 4280
Wards	4275
Yamaha	4274, 4275

Using the Satellite Receiver's Features

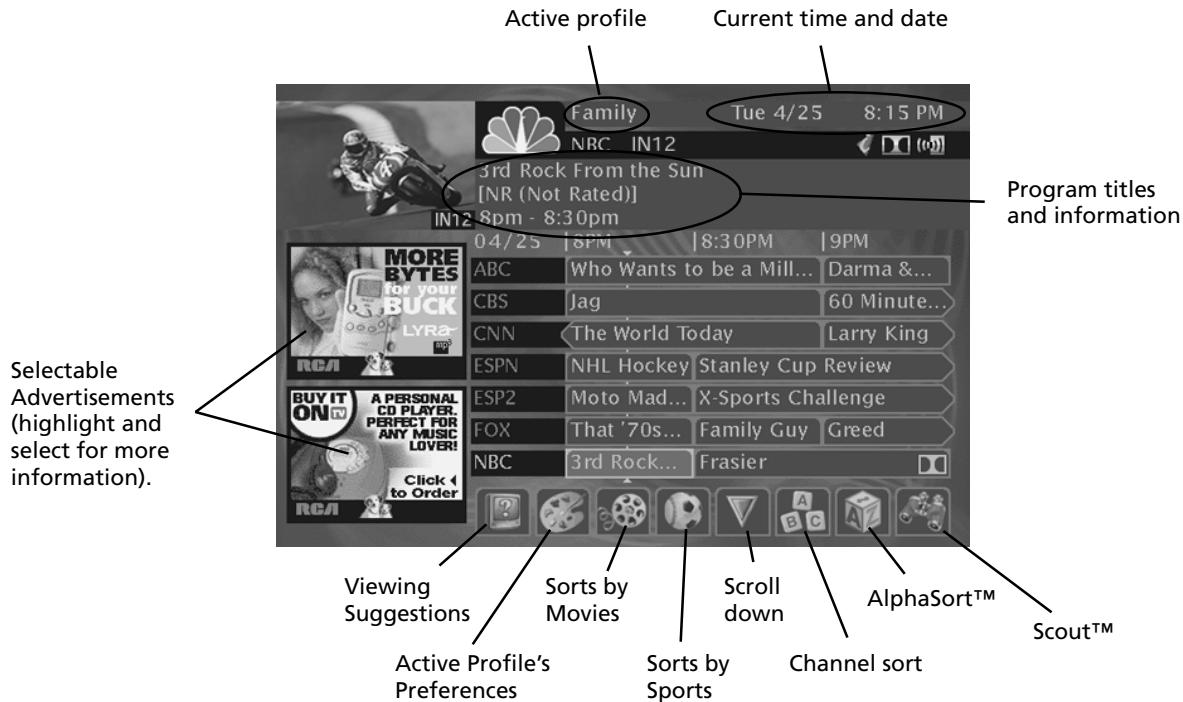
Chapter Overview:

- What is a Program Guide?
- The DIRECTV INTERACTIVE™ feature
- The Channel Banner and other on-screen displays
- How to use the on-screen programming schedule

Changing Entertainment. Again.



Satellite Receiver Features



Anatomy of a Program Guide

The following diagram shows you the kind of information you will see in the program guides.

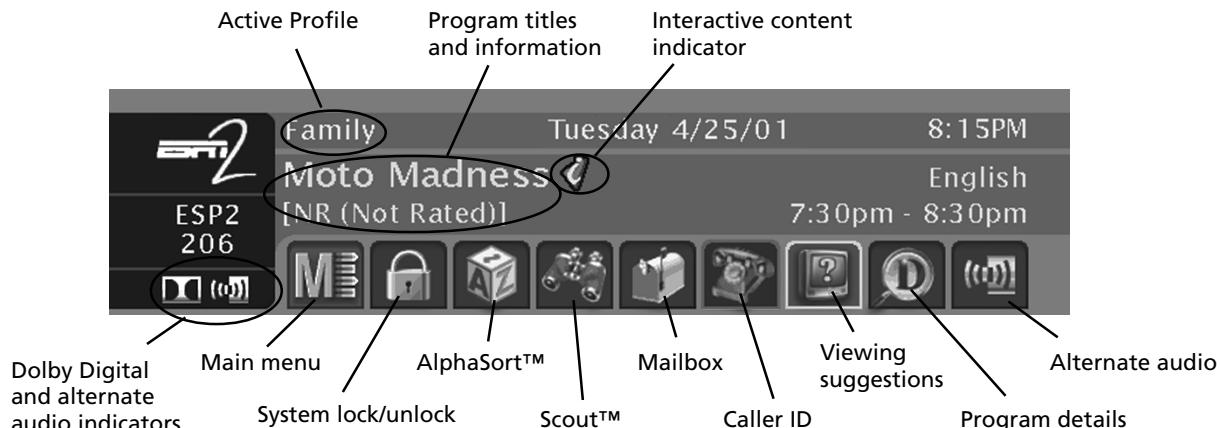


Displaying the Program Guides

To access the program guides, press MENU on the remote control and select *Program Guides*, then the guide of your choice (*Default*, *Channel*, or *Logo*). You can quickly access the receiver's Default Guide by pressing the GUIDE button on the remote.

To change the current user, press the remote control's WHO•INPUT button while viewing programming, then use the remote control's arrow and OK buttons to select the desired profile. You can also press the remote control's MENU button, then select *Program Guides*, and then *Select User* to display the list of profiles from which to choose.

Satellite Receiver Features



Using The Channel Banner

The channel banner appears whenever you do one of the following:

- Tune to a channel.
- Press the remote control's INFO, SAT, or GO BACK buttons while watching programming.
- Press UP, DOWN, or INFO on the satellite receiver's front panel.
- Exit the on-screen menu system.

On-screen icons represent frequently-used menu items. Some icons also change appearance to show the item's status. Use the arrow buttons to highlight an on-screen item, and the OK button to select it. Some of the items you select in the channel banner can also be selected in the program guides.

Buttons of the Channel Banner

Main Menu icon Takes you to the Main menu.

Locked icon The system is locked. Spending, viewing and other limits cannot be accessed or changed. Selecting this icon displays a password menu. Enter the correct system password to override settings.

Unlock icon The system is unlocked. Spending, viewing and other limits can be accessed or changed. Selecting this icon in the channel banner displays the Lock System control panel.

Video Unlock icon A password has been entered to temporarily override the limits. The system will remain unlocked until the satellite receiver is turned off or re-locked.

Program Unlock icon A password has been entered to override limits for a single program. After the program ends, or when the channel is changed, limits are restored.

AlphaSort™ icon Enables you to sort titles alphabetically.

Scout™ icon Allows you to search for programs using key words.

Mail icon Displays the Mail screen. The icon will be white if you have an unread mail.

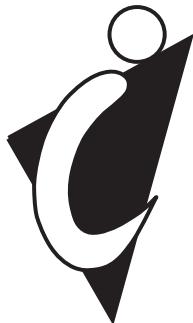
Telephone icon Displays the Caller ID list screen. The icon will be white if you have received a new call but have not accessed the Caller ID List screen. It will be gray if you have accessed the Caller ID List screen.

Viewing Suggestions icon Displays the *Viewing Suggestions* menu.

Program Details Displays a description of the current program (if available).

Alternate Audio icon Cycles through the alternate audio choices.

Satellite Receiver Features



The DIRECTV INTERACTIVE™ Feature

Your digital satellite receiver includes DIRECTV INTERACTIVE™, powered by Wink Communications®, a free service that gives you the opportunity to interact with TV programming and advertising. You can use your remote control to get program-related information, respond to free offers during commercials and even make purchases while you watch TV.

Whenever you see the DIRECTV INTERACTIVE™ icon (i) appear, press the OK/i button on the remote control to open the interactive window.

To learn more about the DIRECTV INTERACTIVE™ service:

1. Press MENU on the remote control (the Main menu appears).
2. Use the arrow buttons on the remote control to highlight *Interactive*.
3. Press the OK/i button to tune directly to the DIRECTV INTERACTIVE™ Center (channel 499) to get more information about the following: Getting Started, Interactive Channels, Shopping Sign Up, Order History, Messages, Help & Settings, and About DIRECTV.

Displaying On-screen Guides

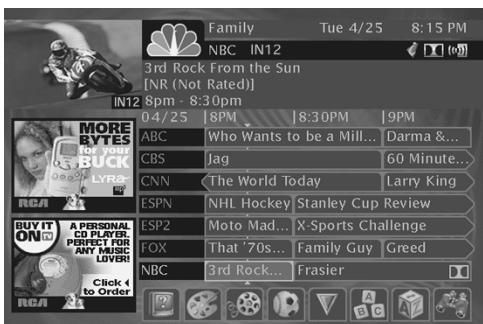
Each time you press the remote control's GUIDE button, a different type of program guide appears:

The Detail Guide

The Detail Guide shows five channels in a time-and-channel format, with program information for the highlighted program. A small window showing the program you were watching before entering the program guides is displayed in the upper left hand corner (you can preview other channels in the Detail Guide by highlighting channel numbers instead of the program titles).

Notes: By default, the Detail Guide appears when you press GUIDE on the remote control. You can change the default guide from the Detail Guide to the Grid Guide.

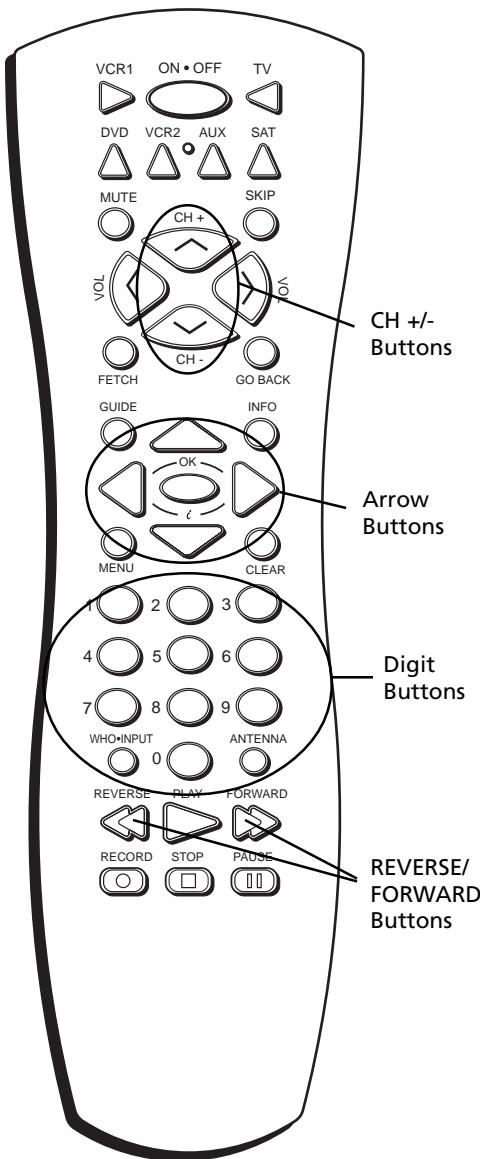
Select *Personal Settings* from the Main menu, then select the profile to be changed, then select *Default Guide*. Use the remote control's arrow buttons to highlight Grid Guide, then press the OK button to activate your choice.



The Grid Guide

The Grid Guide shows seven channels in a time-and-channel format. A small window showing the program you were watching before entering the program guides is displayed in the upper left hand corner (you can preview other channels in the Detail Guide by highlighting channel numbers instead of the program titles).

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Getting Around In the Guides

This section describes how to change channels and move around a program guide.

Digit Buttons (0–9)

You can point quickly to any channel in the program guide by entering the channel number with the digit buttons (0–9). For example, to point to channel 228, press the digits 2-2-8, on the remote control.

Scrolling Channel By Channel

The programs that you see on the TV screen make up one section—or page—of the total program guide. You can scroll one line at a time using the arrows: point to other times with the left and right arrows; point to other channels with the up and down arrows.

Scrolling Page By Page

If you want to scroll up or down through the program guide faster, press the CH +/- buttons on the remote control. The highlight scrolls a page at a time.

Scrolling Forward and Reverse

To scroll forward in two-hour increments, press the remote control's PLAY button while in SAT mode. To go forward or reverse by a 12-hour block of time, use the FORWARD and REVERSE buttons on the remote control.

Note: Your digital satellite receiver can store up to seven days of programming information. Getting all this information can take up to 12 hours to download.

Satellite Receiver Features



Tip

For information on tuning to a PPV program, see pages 50.

Tuning to a Program

To tune directly to a current program listed in the guide, point to the program and press OK.

To see information about a program in the guide, point to the program and press INFO.

Then, you can select:

- *View Channel* to tune to that channel
- *Record Program* to record the program
- *Remind Me* to set up a Watch Timer. This will display a prompt allowing you to quickly change the channel when the program is about to begin.
- *Other Times* to see what other times the program is available.
- *More Details* opens another display with detailed information (if available).

The options available to you may vary according to the type of program you select.



Tip

Your digital satellite receiver can store up to seven days of information, so retrieving data can take a little time.

It can take up to 12 hours to download all seven days of information when turning the system on after the Guide information has been erased.

More Details

There's a variety of program information sent along with standard broadcast signals, and your digital satellite receiver can display much of it (if available).

The *More Details* menu can offer information (if available) about Actors and Roles, the Director, the Writer, Original Materials, the Production Studio, Awards, Keywords associated with the program, and the original release Date and Run Length. Just use the remote control's arrow and OK buttons to highlight and select the desired button, and to display more information.

You can even use the displayed information in the *More Details* menu to look for matching information in the stored guide programs, or to create search criteria for use with the Scout™ search feature of your digital satellite receiver.

To Access More Details:

1. Highlight a desired program in the on-screen guide and press the remote control's INFO button.
 2. Highlight and select *More Details*.
- Note:** The *More Details* button is displayed in the *Program Details* menu only if more information is available.
3. Highlight and select the desired on-screen information button to display the details on the opposite side of the screen.

To search for other programs with similar information:

4. Highlight the desired information on the right side of the menu and press the remote control's OK button. This will display any other program stored in the on-screen guides that shares the highlighted information.

To save your search as Scout Criteria:

5. After completing step 4, use the remote control's arrow and OK buttons to select the Save as Scout button. You will be given on-screen instructions to complete this task.

Additional Program Guides

Besides the Detail and Grid Guides, there are a few more to choose from: the Channel Guide, the Logo Guide, and the Viewing Suggestions Guide.

You can access these guides from the Main menu by selecting *Program Guides*.



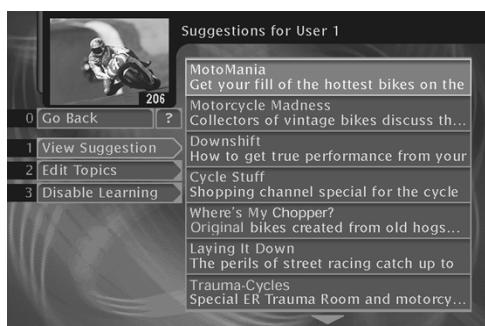
The Channel Guide

Displays the programming schedule for the selected channel.



The Logo Guide

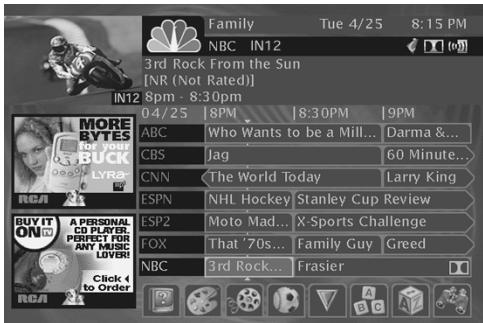
Displays channel logos for the current user's channel list.



The Suggestions Guide

Displays a list of programs based on programming that has been previously watched under that user profile.

Satellite Receiver Features



Sorting the Guides

Sorting the guide is a way of organizing the information to show only the types of programs that interest you. There are several on-screen icons that sort the guide in different ways. You can list programs by sports or movie themes, for example. You can customize the themes to meet your tastes, and each profile can have its own default program sorting.

To get to the sorting icons, use the down arrow button to move the highlight to the icons at the bottom of the screen. Then, use the left and right arrow buttons to highlight the desired icon.



Viewing Suggestions

When you select the *Viewing Suggestions* icon, a list of recommended program events appears. The recommendations are based on your previous viewing habits in terms of the amount of time spent watching programs that match a topic and theme category. The suggestions are ordered by best match.

Viewing suggestions are created for each active user profile. The suggestions being shown are always for the current user profile.

You can view and change your suggestions, or turn off the learning behavior of the digital satellite receiver altogether from the *Viewing Suggestions* menu.

To Access the Viewing Suggestions Menu:

1. Press the remote control's MENU button to display the Main menu.
2. Press 1 to select *Program Guides*.
3. Press the 4 button to choose *Suggestions*.
4. Access desired viewing suggestions using the remote control's arrow and OK buttons to select.

Note: You can also access this menu by selecting the *Viewing Suggestions* icon in the Channel Banner or at the bottom of the on-screen guides.

TIP: Accessing Viewing Suggestions

You can select *Viewing Suggestions* by selecting *Suggestions* in the Main menu, or by pressing the icon displayed in the channel banner or on-screen guides.



Customizing Viewing Suggestions

You can edit the themes that will appear in the *Viewing Suggestions* menu by applying different "weights" to the topics. Increasing a topic's weight increases the chance that programs with such themes will appear in the *Viewing Suggestions* menu. Decreasing a theme's weight will lessen the chance that such themes will appear.

To Change the Weight of Themes and/or Topics:

1. Follow steps 1-3 above to display the *Viewing Suggestions* menu.
2. Press the 2 button to select *Edit Topics*.
3. Select the numbered Topic to edit, then use the remote control's arrow and OK buttons to select and adjust weight percentages.



Active Profile's Preferences

Each individual can edit preferences so customized themes and topics appear when a sorting icon is pressed. The active profile's preferences can be quickly accessed by selecting this icon at the bottom of all on-screen guides.

To Change the Active Profile's Preferences:

1. Press the GUIDE button on the remote control to display the default guide.
2. Use the remote control's arrow and OK buttons to select the Active Profile's Preferences icon at the bottom of the guide.
3. Press the 2 button to select *Edit Preferences*. This will display a menu where you can customize the themes to appear when the Active Profile's Preferences icon is selected.
4. In the customizing menu, use the remote control's arrow and OK buttons to highlight and select/deselect theme choices.

Note: The themes and topics can be customized for any profile.

Once finished customizing the themes, only topics that match your choices should appear when you select the Active Profile's Preferences icon in the on-screen guides.



Movies

Select the *Movies* icon to sort and list only movies. After selecting *Movies*, the *Movies Themes* menu is displayed. Here you can sort movies by various themes. By default, *All Movies* is highlighted first.

Select the *Movies Themes* icon to sort the guide to list specific types of movies, such as comedies or musicals. This icon may change from *Movies* to a different topic in the future, but it will continue to function in the same way.



Sports

Select the *Sports* icon to list sporting events only. After selecting *Sports*, the *Sports* icon changes to a *Sports Themes* icon.

Select the *Sports Themes* icon to sort the guide to list specific types of sports, such as basketball or soccer. This icon may change from *Sports* to a different topic in the future, but it will continue to function in the same way.



Channel Sort

Sort the on-screen guides to display channels in either numeric or alphabetical order. When the guide is sorted alphabetically, the 1-2-3 icon is displayed (select the icon to change the display to numeric). When the guide is sorted numerically, an A-B-C icon is displayed (select it to display the guide alphabetically).

Satellite Receiver Features



AlphaSort™

The *AlphaSort* feature lists all the program titles stored in the current guide in alphabetical order. Select the *AlphaSort* icon to search for specific program titles that are in the stored program guide information in alphabetical order. Use the arrow buttons on the remote control to highlight a character, then press OK.

For example, to search for the program *Auto Racing*, point to and select “A.” (Words like “The,” “A,” and “An” appear at the end of a title.) All titles that begin with “A” appear in the *AlphaSort* list. Next, enter the letter “U.” All titles beginning with “AU” appear in the list.

Continue to enter the specific title until it appears in the *AlphaSort* list. If you enter the wrong character, select either *Backspace* or *Clear All*.

Use the arrow buttons on the remote control to highlight the title you are looking for. Press the OK button to select it (if the program is airing), or the INFO button to see more information (if the program is not airing, OK will act like the INFO button). The *AlphaSort* feature looks for titles from all stored programming.

Note: When the digital satellite receiver is first plugged in or turned on after an extended power outage, there will only be a few hours of Guide information for search features to work with. It can take several hours for all three days worth of Guide data to be completely downloaded to your receiver.



Scout™

The *Scout* system icon lets you assign “Scouts” to search the guide for specific program information, such as actors’ names or program descriptions.

Select the *Scout* icon from a program guide to view the available Scout menu items. Then, select *New Scout* from the Scout menu (this button only appears if there is an empty Scout menu available).

Select *Enter Text* to set up the information the *Scout* feature will look for in the program guide. Use the on-screen keyboard to enter the desired search parameters. You can also use the *Select Fields* menu button to specify the type of information you are looking for.

For example, if you are interested in how to prepare food, enter a common term you think would occur in program information, like “cooking.” When you have finished entering your topic select *Run Scout*.

If “cooking” appears within a program title or program description, the program will be included in the Scout Results program list.

Once you have set up a Scout menu item, you can check its status by highlighting it. A highlighted binoculars icon means that a Scout menu item has found results.

Scout continually searches for requested information whether the box is on or off. You can also select *Run Scout* to do an immediate search after setting up a scout.

Check a Scout menu item’s results by selecting that Scout menu item. When you highlight that Scout, the results are displayed on the right side.

Tip

On-screen icons represent the status of the Scout feature:



This icon (displayed in the Scout menu) indicates that the information you specified has been found.

The Scout icon in the Channel Banner and the on-screen guides will have a white outline when a Scout search returns information.



Down Arrow

The down arrow icon allows you to scroll down through other channels in the guide. Point to the down arrow icon and then press OK to scroll down through the program guide.

Using the Menu System

Chapter Overview:

- Using the Menu System
- Program Guides
- Messages
- Using the Purchases Menu
- Recording with Timers
- User Profiles
- Personal Settings
- System Setup

Changing Entertainment. Again.



Using On-Screen Menus



Using the Menu System

To display the Main menu, press MENU on the remote control.

To use the menu system, you need to use the remote control's arrow buttons to highlight your on-screen choice, then use the OK button to select it. In menus that use numbered choices, you can use the remote control's number buttons to select an item quickly.

On-screen Buttons and Context Help

The on-screen menu system offers you more than one way to get more information or to navigate within the system using the on-screen *Go Back* and *Help* buttons at the top of most menus.

Exiting a Screen

There are three ways to exit a menu:

- Select the on-screen *Go Back* button and press the OK button on the remote control.
- Press the CLEAR button on the remote control. The on-screen display clears from the screen and you return to TV viewing.
- Press the GO BACK button on the remote control. This returns the TV to its preceding display.

Tip: No Menus?

If the Main menu doesn't appear when you press MENU, the remote control might not be in SAT mode. Try pressing the SAT button on the remote, and then MENU.

Tip: Using On-screen Help

Press the remote control's INFO button at any time for more information.

Getting Help

For an overview of a displayed menu, use the remote control's arrow and OK buttons to select the on-screen Help button (?).

For details about a highlighted menu item (in what context an on-screen button is used, for example), press the remote control's INFO button and a popup window will tell you more.



Main Menu Items

This section briefly describes each of the options available from the Main menu. More information about each menu and its features is included later in this chapter, and you can always get more information when an item is highlighted by pressing the remote control's INFO button.

Program Guides

Selecting this button will display a menu with a variety of different ways to view program guide information.

Messages

This button is used to access the Caller ID information from your telephone company and mail messages from DIRECTV.

Note: You must subscribe to Caller ID service from your telephone service provider in order for the on-screen Caller ID information to be displayed.

Purchases

Use this button to review or cancel upcoming purchases, review past purchases, and set spending limits for saved profiles.

Timers

Schedule the digital satellite receiver to tune to a specific channel at a specific time. If a VCR has been properly connected to the receiver, you can also record future programming.

Profiles

This button displays a menu where you can set system and user passwords, ratings limits, spending limits, viewing hours, as well as create favorite channel lists.

Personal Settings

Do you want to set up an individual profile's personal settings or alter the look and feel of an existing profile? This button will take you to a menu where you can alter or set personal preferences of your digital satellite receiver.

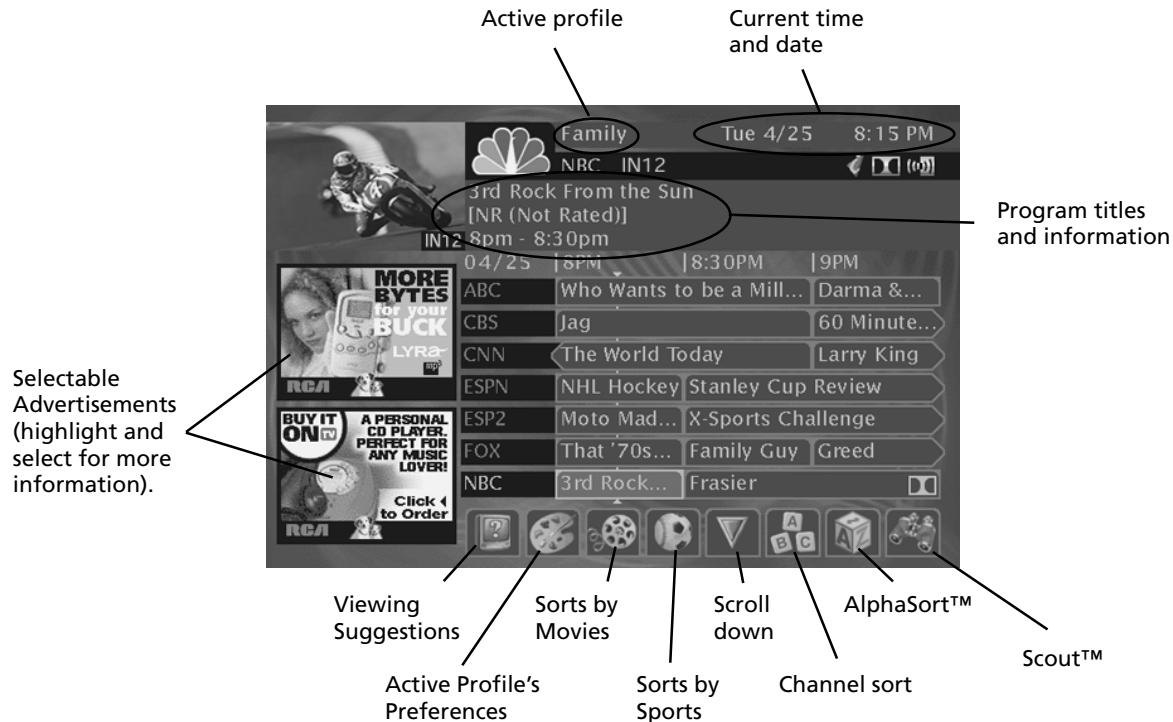
System Setup

Allows you to adjust to the way your system works, to get more information about system features, get dish pointing coordinates, etc.

Interactive

Television broadcasts typically carry a wealth of information and now you can access and interact with it starting with this button. Selecting Interactive from the Main menu displays the DIRECTV INTERACTIVE™ Center for setting up interactive TV service.

Using On-Screen Menus



1 Program Guides

The Program Guide

Note: The program guide is described in detail in the previous chapter, *Using the Satellite Receiver Features*, starting on page 31.

Selecting *Program Guides* from the Main menu displays a menu with a variety of display options available. You can select a specific User Profile, the system default guide (Detail Guide or the Grid Guide- according to your preferences), or the Logo or Channel Guide, Viewing Suggestions, or change the active profile.

Anatomy of a Program Guide

The diagram above shows you the kind of information you will see in the Detail Guide and Grid Guide (Grid Guide shown here).

Displaying Program Guides

In addition to selecting *Program Guides* in the Main menu, you can press the GUIDE button on the remote control. This bypasses the Program Guides menu and directly displays the default guide.

2 Messages

Messages

The Messages menu lets you access messages or phone calls. If you select *Mail*, it shows you messages that are sent from DIRECTV. For example, you may receive a message calling your attention to a new service. If you select *Caller ID*, this menu shows you Caller ID information from your telephone provider (if you subscribe to Caller ID service).

Mail

To tell if you have mail, you need to check the channel banner available when you press the remote control's INFO button. In the channel banner, the messages icon will be highlighted if you have an unread message waiting.



Checking Your Mail

Select *Messages* from the Main menu, then *Mail* from the next menu. Or select the mailbox icon on the channel banner to view your mail.

- 1 Point to a message and press OK. The message is opened for you to read.
- 2 Press OK again to close the message.

If you want to erase a message, point to *Erase Message* and press OK. When you exit *Messages*, messages that aren't erased are saved in memory.

Note: The quickest way to check for messages is to press the INFO button on the remote control. This will display the channel banner. With the channel banner displayed, use the remote control's arrow buttons to highlight the mail icon, then press the remote control's OK button to access the Mail menu.

Using On-Screen Menus

Caller ID

Your digital satellite receiver is capable of displaying and storing Caller ID information provided by your local telephone company. **To use this feature, you must have your receiver directly plugged into a telephone outlet (or a RC930 wireless modem) and you must subscribe to Caller ID or similar caller identification services from your telephone company.**

Your Caller ID enables you to:

- Identify callers before you answer the phone.
 - View the time and date of each incoming call.
 - Record the Caller ID information of up to 20 incoming calls sequentially.
- Note:** Only the last ten calls will be retained after a power outage.
- See who called while you were away.

There are two ways to access the Caller ID menus: by selecting *Messages* from the Main menu, or by pressing INFO on the remote control and selecting the telephone icon in the Channel Banner. The icon will be white if you have received a new call but have not accessed the Caller ID List screen. It will be gray if you have accessed the Caller ID List screen.



Setting Up Caller ID

To set up your Caller ID, go to the Main menu and select *Messages*, then select *Caller ID Setup*. Use the up and down arrow and OK buttons to select your preferences.

Caller ID Light Setting *Caller ID Light* to *On* causes the front panel light to flash if you receive new calls while the digital satellite receiver is off. The light will flash until you turn the receiver on.

Caller ID Message Setting *Caller ID Message* to *On* displays the on-screen Caller ID banner when a call is received. You may want to turn this feature off when you are recording manually and do not want the on-screen messages to appear on your recordings. Your calls will be stored in the Caller ID List screen even when Caller ID is turned off.

Caller ID Message Time-out Set the amount of time (from 1–30 seconds) that the Caller ID banner will display when you have an incoming call. For this feature to work, make sure *Caller ID Message* is set to *On*.

Note: If you have a timer set to either watch or record, the Caller ID banner will be temporarily overridden for the duration of that timer. When the timer event is over, the Caller ID banner will display as selected under *Caller ID Message*.

When viewing or recording manually (not using a timer) the Caller ID banner will display (and be recorded if recording) as selected under *Caller ID Message*.

At all times Caller ID messages will be stored in the Caller ID List screen (unless a call arrives when you are on the telephone and you do not have a Type II box or Type II service).



Receiving Calls

When your phone rings twice and *Caller ID Message* is set to *On*, a banner appears at the bottom of the screen.

The banner may include the phone number, date, and time; or the name, phone number, date, and time. The banner information depends on the type of service your telephone company provides.

The Caller ID banner will override closed captioning at the bottom of the screen and will appear for the amount of time selected in the *Caller ID Setup* screen. The Caller ID banner will not be displayed if you are in the menu system or a timer is active when you receive a call.

Note: If using your telephone and another call arrives, the new call's information won't appear in the banner or be recorded in the Caller ID List screen unless you have type II service and a type II Caller ID box in your house.

If you have a timer set to either watch or record, the Caller ID banner will be temporarily overridden for the duration of that timer. When the timer event is over, the Caller ID banner will display as selected under *Caller ID Message*.

When viewing or recording manually (not using a timer) the Caller ID banner will display (and be recorded if recording) as selected under *Caller ID Message*.

At all times Caller ID messages will be stored in the Caller ID List screen (unless a call arrives when you are on the telephone and you do not have a Type II box or Type II service).

Message Indicators

The following is text that may appear in the incoming Caller ID banner and call list.

Out of Area The name and/or phone number of the incoming call is coming from outside the local area.

Private Name The name of the incoming call is sent as "Blocked" from the phone company.

Private Number The phone number of the incoming call is sent as "Blocked" from the phone company.

Unknown Name The name of the incoming call is not provided by the telephone company or the information is unreadable.

Unknown Number The number of the incoming call is not provided by the telephone company or the information is unreadable.

Note: To clear the Caller ID banner from the screen, press CLEAR on the remote control.

Tip: When you have unread Caller ID calls:

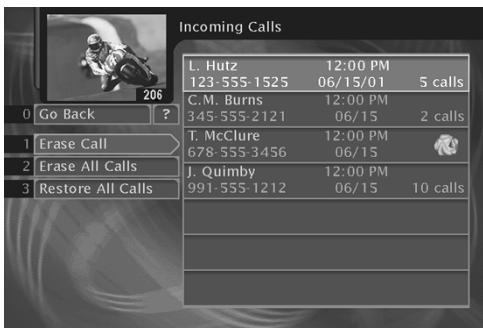
The front panel light will flash (when the digital satellite receiver is off).

The telephone icon in the channel banner will be highlighted white.

Tip

If you'd like more information to appear in your Caller ID banner and call list, or if you'd like to subscribe to Caller ID, check with your local phone company about the availability of different types of Caller ID service.

Using On-Screen Menus



Tip: Don't Forget About the CLEAR Button

Press the **CLEAR** button on the remote control to remove the on-screen menus and return to normal viewing.

The Caller ID List Screen

The digital satellite receiver can store up to 20 call entries in the Caller ID List screen. When the memory is full, a new call automatically replaces the oldest call in memory. The list also tells you if you have received multiple calls from the same number.

To access the call list:

- Select *Caller ID List* from the Messages menu, or
- Press the INFO button on the remote control and select the phone icon.

Deleting Calls

From the Caller ID List screen, you can delete entries:

1. Highlight the call you wish to delete and press OK.
2. A crumpled paper icon appears to indicate that you wish to delete the call.
3. To permanently delete the call, exit the screen. If you change your mind before exiting the screen, highlight the call then press OK to restore it. The crumpled paper icon should disappear.

3 Purchases

Using the Purchases Menu

The Purchases menu allows you to review upcoming and past purchases and set spending limits.

The list of purchases may be longer than one screen; use the up and down arrow buttons to see more items. The display also shows the title, channel, date, time, and cost of each program.

Note: The *Past Purchases* list is updated as soon as a purchased program is viewed.



Reviewing and Canceling Upcoming Purchases

Highlight and select an upcoming purchase from the *Future Purchases* screen. You can review the program description, as well as cancel an upcoming purchase.



Spending Limits

Use the *Spending Limit* option to indicate a per-event, and/or a monthly spending limit for Pay Per View programs.

1. Select *Spending Limit*.
2. Select the user profile you'd like to set a spending limit for, then use the digits or the arrow buttons on the remote control to enter program spending-limit information.

After a spending limit is set *and* the system is locked, you must enter a password to purchase a Pay Per View program that costs more than your spending limit allows.

Note: Spending limits are in effect only when the system is locked. See "Locking the System," later in this section, for details.



Pay Per View Programs

Pay Per View (PPV) programs are DIRECTV® programs that you can purchase—like a movie ticket—if you subscribe to DIRECTV® programming and have your digital satellite receiver connected to a telephone line (see the instructions starting on page 5 for connection details).

Previewing and Purchasing

You can preview and purchase DIRECTV® Pay Per View movies and events if you subscribe to DIRECTV® programming and have your digital satellite receiver connected to a telephone line.

To purchase a movie or event, you can take one of two actions:

- Tune to a PPV channel using the remote control's CH +/- buttons. When you find one, press the INFO button to find more information and details about how to purchase the program.
- Highlight a PPV program in a program guide and press INFO. The Program Details screen will appear and give you more information about the program. From this screen you can also purchase the program.

You can select:

- *View Channel* to view that channel
- *Buy Program* to purchase the program
- *Buy and Record* to purchase the program and set a timer to record it
- *Remind Me* to be prompted just before the show is scheduled to start.
- *Other Times* to see when the program will air again.
- *More Details* to go to a menu that will display additional information about the program (if available).

Note: The options available to you may vary according to the type of program you select.

Tip: Ordering PPV

If you want to order PPV programs using the on-screen menus, you need to connect your digital satellite receiver to a telephone line.

Tip: PPV Passwords

You may need to enter your four-digit password to order a PPV program if it costs more than the spending limit you set up in the Profiles or Purchases menu.

Using On-Screen Menus

4 Timers

Key

On-screen icons are a quick way to understand the timers:



Indicates that the timer is set.



Indicates that the timer is set for a PPV program.



Indicates a timer conflict.



Indicates Interactive content.

Timer Recordings

The Timers feature allows you to preset your digital satellite receiver to automatically tune to a particular channel at a predetermined time.

To use the Timers feature, select *Timers* from the Main menu. Select a Timer (1–16) and then use the arrow buttons to complete the on-screen details. When the information is complete, select *Continue*.

Note: If you subscribe to Caller ID service, note that the Caller ID banner will neither be displayed or recorded during a timer (watch or record). However, all calls will be logged. The banner will display as selected when the timer recording is over.

Setting Up Timer Recordings

The Timers feature allows you to set up timer recordings if you have connected the VCR Controller to your digital satellite receiver and told the receiver what type of VCR you are using. See page 16 in the *Setup and Connections* section for details on connecting a VCR Controller.

Editing or Canceling a Timer

From the Timers screen, select the Timer you want to edit or cancel, and then do the following:

- Use the arrows buttons to edit the Timer, then select *Continue*.
- Select *Clear Timer* to cancel the timer.
- To watch the program daily or weekly, edit that program's Timer.

Recording with a Timer

If you choose *Record* instead of *Watch* when setting a Timer (and have set up your VCR as previously discussed), the Timer will turn on your VCR, then start and stop recording a program.

To record with timers:

- Your VCR must be tuned to channel 3 or 4 (if the VCR is connected with just coaxial cables), or to the video input channel (if the VCR is connected with audio/video cables).
- You must turn your VCR off prior to the scheduled recording time.
- You must have a recordable tape in the VCR.





Schedule a Timer with the RECORD Button

You can schedule a recording directly from the guide.

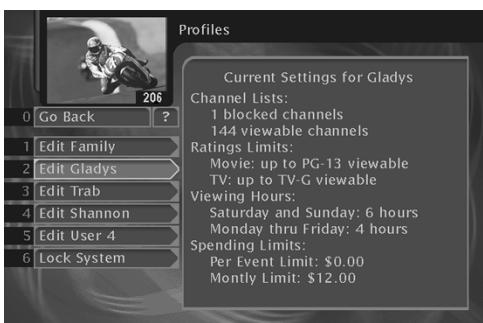
- With a program highlighted, press the RECORD button on the remote control. The *Program Details* screen appears.
- To schedule a timer to record, select:
 - Record Program* to set a timer to record the program, or
 - Buy and Record* to purchase the program and set up a timer to record the program.

Note: Programs bought to be recorded may have a different purchase price than those bought for viewing only.

5 Profiles

User Profiles

Profiles allows you to set up different channel lists and limits for the different members of your family. A main profile (the *Family Profile*) and up to four separate profiles can be created. Individual settings that can be changed in the Profile Menu include the profile name, viewable channel lists, ratings limits for TV and movies, viewing hours, spending limits, and profile locking.



Creating and Editing User Profiles

When you select *Profiles* from the Main menu, the first screen you see presents a menu listing all user profiles (the Family Profile and up to four individual profiles). You can create a new profile (if a blank profile exists), or edit an exiting one.

To personalize an individual User Profile:

- Press the remote control's MENU button to display the Main menu.
- Press the 5 button to select *Profiles*.
- Highlight the desired User Profile.

Note: The highlighted User Profile's settings are displayed in the panel on the right side of the screen.

- Press the remote control's OK button to select that profile and enter profile editing mode.

Using On-Screen Menus



Setting the Profile Name

The first step when creating a new profile is to set a name. This will be the name that appears when repeatedly pressing the WHO•INPUT button.

To set the profile name:

1. In the Profiles menu, press the 1 button to select *Name*.
2. Use the remote control's arrow and OK buttons to highlight and select the different letters of the profile name.

Copying Profile Settings

To make creating or editing a profile easier, your digital satellite receiver gives you the ability to use the settings of a previously set profile.

To copy the settings of an existing profile:

1. In the Profiles menu, press the 2 button to select *Copy Settings*.
2. Use the remote control's arrow buttons to select the proper profile to copy settings from.
3. Press the remote control's OK button to select the desired profile.
4. Use the remote control's arrow and OK buttons to highlight and select the COPY button at the bottom of the screen.

Creating a Profile Channel List

1. Select *Edit Channels*.
2. Use the arrow buttons to highlight a channel, and press OK to remove (or replace) the check mark. Checkmarked items appear in the channel list.



Add or Delete All Channels

You might be able to save time when creating a channel list by using the *Add All Channels* option or the *Delete All Channels* option before removing or adding individual channels.

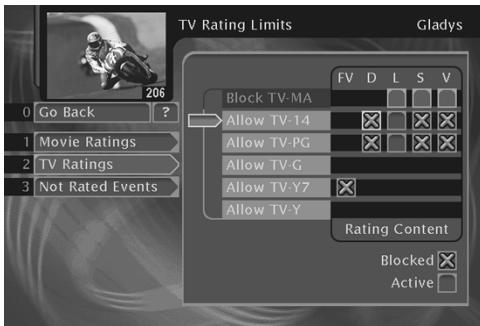
Also, program providers may make additional channels available. To prevent new channels from appearing in a profile channel list, choose *Delete All Channels* and checkmark only the channels you want to appear in the list.

Subscriptions

Selecting the Subscriptions button will allow you to uncheck and remove from the channel list all channels that you do not subscribe to. Use the remote control's arrow and OK buttons to select the desired on-screen menu buttons.

Note: This step may take several minutes to complete.

Using On-Screen Menus



Setting the Rating Limit

The Rating Limit menu enables you to set a maximum rating viewing limit for rated movies (based on the MPAA rating system) and TV programs. Unrated movies and TV programs can also be restricted from individual profiles.

1. In the Profiles menu, select *Rating Limits*.
2. Highlight the desired rating feature to set (Movie Ratings, TV ratings, or Not Rated Events).
3. Press the remote control's OK button.
4. Use the up and down arrow buttons to move the rating selector to the highest desired rating to be viewed by all profiles.

Notes: In the TV Ratings menu, you can customize aspects of certain ratings. For example, the TV-14 rating has four check boxes beside it. Each of these boxes can be checked or unchecked for greater customizing.

The boxes beside certain TV ratings boxes stand for Fantasy Violence (FV), Dialogue/Adult Situations (D), Language (L), Sex (S), and Violence (V).

After the Rating Limit is set *and* the system is locked, you must enter the system password to watch programs with a rating higher than your limit.

Important

You need to lock the system in order for rating limits, channel limits, viewing hours, and spending limits to go into effect.

After you lock the system, you need to enter the system password to edit the limits. See "Locking the System," later in this section, for details.



Viewing Hours

Use the *Viewing Hours* option to limit the total amount of time, as well as the time of day, that a user can watch programming.

1. In the Profiles menu, select *Viewing Hours*.
2. Use the digits on the remote control or point to the + or – buttons and press OK to complete the on-screen sentence. Choose the days to view, how many hours can be viewed each day (0–24 hours) and when programming can be viewed. Be sure to lock the system for these limits to take effect.



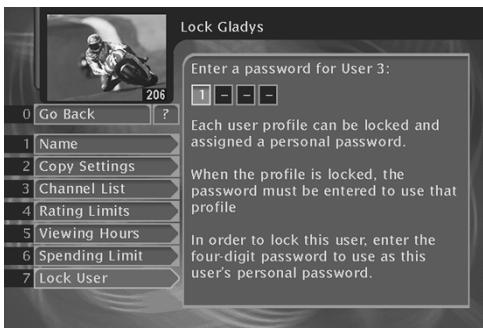
Setting Up Spending Limits

Select the *Spending Limit* option to indicate a per-event and/or a monthly spending limit for Pay Per View programs.

1. Point to *Spending Limit*, and press OK.
2. Use the number buttons on the remote control to enter a single-program spending limit and a monthly spending limit (if desired).
3. When all fields are set up correctly, the satellite receiver returns to the previous display.

Note: After Spending Limits are set and the system is locked, the system password will be required to purchase a Pay Per View program that costs more than the set Spending Limits allow.

Using On-Screen Menus



Locking a User's Profile

Users can be assigned a personal password to lock their profile. When a password is assigned, users must enter the password before they can view programs using that profile. Profile passwords do not allow access to, or editing of, the profile limits (you must enter the system password to edit profile limits).

Note: Each profile that can be easily accessed using the WHO•INPUT button on the remote control.

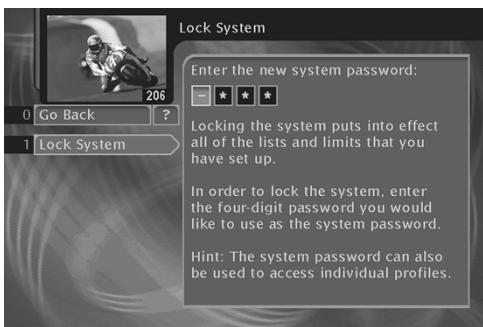
To lock an individual profile:

1. In the specific profile edit mode, select *Lock User*.
2. Use the arrow or digit buttons to select each digit of the password.

Locking the System

Locking the system puts the ratings, spending, viewing, and channel limits you have set up for each profile into effect. When you lock the system, no one can modify any of these settings without first entering the four-digit system password.

1. In the Profiles menu, select *Lock System*.
2. Use the arrows or the digit buttons to enter a four-digit system password.



3. Enter the password a second time to confirm it. The lock icon should be displayed in the channel banner.

Notes: After the system has been locked, you must enter the correct password in order to access the *Edit Profiles* control panel.

If you forget a USER password, you need to unlock the system and then assign a new user password. If you forget the SYSTEM password, contact the DIRECTV authorization center.

- *Lock icon:* All limits are in effect. No limits can be accessed or changed without first entering password system. A password is required to override limits or access the system.



Unlocking the System

When the system is unlocked, the channel, spending, viewing, and ratings limits that you set are no longer in effect. To unlock:

1. Highlight and select *Unlock System* in the *Profiles* menu.
2. Highlight and select *Yes* to confirm that you want to unlock the system. The unlock icon should be displayed in the channel banner.

When you attempt to access a channel that is blocked by one or more limits (and the system is locked), you will be asked to override limits by entering the four-digit system password.

If you enter the password to override a limit, all limits are unlocked until you turn off the digital satellite receiver. When you turn on the receiver again, the system will be locked, and the Family profile channel list will be selected. If you want to re-lock the system without turning off the receiver, you can select the lock icon in the channel banner.



Program/Video Unlock

If the system is locked and you want to access a blocked program without unlocking all settings, press the remote control's INFO button and highlight the Lock icon in the channel banner. Make sure to check the box beside *Unlock this program only*, and enter the system password. This program is no longer blocked, but all other settings remain in effect. The unlock icon with a P should be displayed in the channel banner.

- Use the Lock and Unlock icons in the Channel Banner to lock or unlock the system. To access the Lock/Unlock Menu, press the INFO button on the remote control and use the arrow buttons to select the Lock icon. Use the remote control's number buttons to enter the proper password and follow on-screen instructions.
- *Unlock icon*: The system is unlocked. No limits are in effect. Spending, viewing and other limits can be accessed and changed.
- *Unlock (with a P) icon*: The system is locked, but no limits are in effect for the duration of the current program because a password has been entered to override the current program's limits. No limits can be accessed or changed. After the program ends, the system will return to Lock status.
- *Unlock (with a T) icon*: The system is temporarily unlocked with no limits in effect until the receiver is placed in standby mode. A password has been entered to override the system limits. No limits can be accessed or changed without entering the system password. When the system is turned off, the it will return to Lock status.



Using On-Screen Menus



Choosing Your Profile

Each time you turn on the digital satellite receiver, the Family profile is selected by default, so this should be the profile with the most restrictive limits you want enforced across all profiles.

To select another profile:

1. Press the WHO•INPUT button to display a list of profiles.
2. Use the remote control's arrow and OK buttons to select the desired profile. Then enter the four-digit password to activate the profile.

Note: If the profile is not password protected, you can just press OK to activate it.

The channels, spending, rating and viewing limits associated with the chosen profile will be active only when the system is locked.

The active profile also affects what you see in the program guides. Selecting the User Preferences icon sorts the guide to show only programs meeting the current user profile criteria and which personal settings are used.

To change the current profile, press the WHO•INPUT button.

6 Personal Settings

Personal Settings

The Personal Settings menu, accessed by pressing the 6 button in the Main menu, lets you customize the look and feel of the active profile. Each of the satellite system's profiles can have individualized personal settings.

Note: If a personal profile is password protected, then that password must be entered before changing any of the profile's settings.

Once you have accessed the personal settings menu, select the desired profile. You will use the remote control's arrow and OK buttons to make your selections.

The following sections explain your options when changing your personal preferences. Follow the on-screen instructions to make changes to the system.

Name

Used to change the profile display name. This name will be displayed in the Profiles menus as well as when the remote control's WHO•INPUT button is pressed.

Note: A profile's name can be changed either by selecting the *Personal Settings* in the Main menu, and then selecting *Name*, or in the *Profiles* edit menu.

Default Guide

Lets you choose which guide appears first when you press the GUIDE button on the remote control. The choices are Grid Guide or Detail Guide.

Guide Sorting

Lets you choose whether the default guide is sorted numerically by channel numbers or alphabetically by channel names.

Color Scheme

Lets you pick which colors appear in the guide and menu systems.

Translucency

Lets you choose how see-through the channel banner, the Fetch menu, and the Main menu are when displayed. Use the remote control's arrow buttons to access and slide the indicator bar to make the screens more or less opaque.

Animation

Lets you select which graphics are displayed when you tune to an audio-only channel and also lets you select the animation time-out.



Edit Fetch

Lets you choose a single function for the FETCH button on the remote control, or to bring up a custom menu of up to 8 different features to choose from.

To create a custom Fetch menu:

1. Press MENU to bring up the Main menu.
2. Select *Personal Settings*,
3. Select the desired profile (each profile can have a different Fetch Menu).
4. Select *Edit Fetch*.
5. Select *Fetch Control*.
6. Select *Show Fetch Menu*.
7. Select *Fetch List* from the Edit Fetch menu.
8. Choose up to eight menu items to include in your customized menu by checkmarking them with the OK button.
8. Press the left arrow button to confirm your selections and return to the menu.

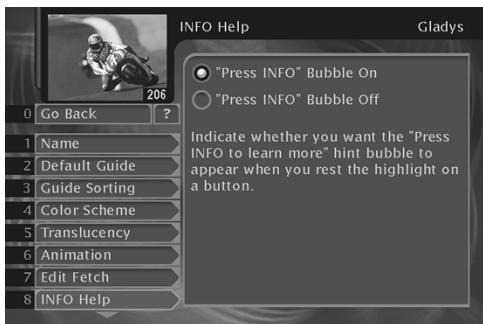
When you would like to access your customized menu, press the FETCH button on the remote control.

Using On-Screen Menus

To assign one function to the FETCH button:

1. Press MENU to bring up the Main menu.
2. Select *Personal Settings*,
3. Select the desired profile (each profile can have a different Fetch Menu).
4. Select *Edit Fetch*.
5. Select *Fetch Control*.
4. Select *Assign One Function*.
5. Select *Fetch List* from the Edit Fetch menu.
6. Choose which menu item you would like to assign to the FETCH button by pointing and selecting.
7. Press the left arrow button to confirm your selection and return to the menu.

You may press the FETCH button on the remote control and execute the assigned function at any time while viewing DIRECTV® programming.



INFO Help

A text block saying Press INFO to learn more pops ups by default whenever there is a brief period of inactivity in a menu. This INFO Help menu allows you to turn this feature on or off.

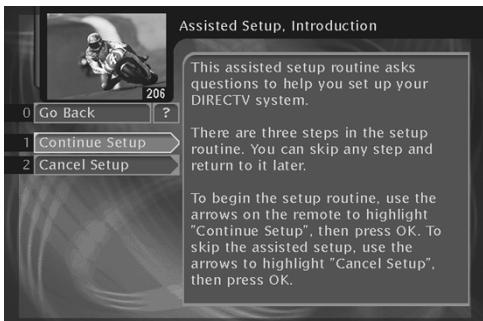
Reset

This button allows you to reset all personal settings back to the factory defaults.



System Setup

The System Setup menu allows you to get details about your system and is used to configure system options that are not profile specific. Setup items that are global to the digital satellite receiver include system options and dish pointing.



Assisted Setup

This feature walks you through a series of questions and is designed to quickly get the system detecting a signal.

Follow the on-screen instructions to set the system language, get instructions on menu navigation, select the type of satellite dish antenna used, find your dish-pointing coordinates, and run a system test that initiates diagnostic procedures on the satellite receiver system. You have the option to skip any of the steps.

System Index

The System Index feature allows you to get detailed information about your digital satellite receiver.

Details that can be viewed from within the System Index menu include program guide information, details about the menu system, explanations of the remote control, front panel, and back panel of the receiver, and even a glossary of words common when discussing digital satellite receivers.

System Options

The System Options feature allows you to set a default on-screen display language, identify the type of VCR to be controlled by the receiver, choose a receiver output channel (the channel that the TV views satellite broadcasting), set up the remote control and RF remote, select a default picture size, select a Dolby Digital option, and set the time zone.

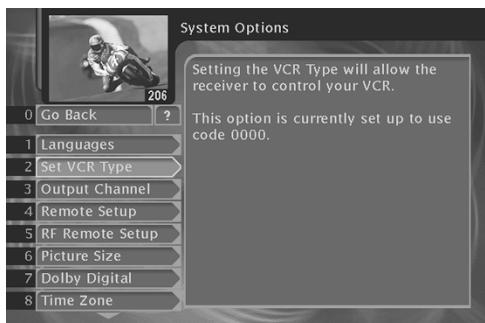
Use the remote control's arrow and OK buttons to navigate through these menus, or you can use the digit buttons on the remote control to select a numbered on-screen item.



Languages

This menu allows you to select menu and audio languages. You can choose between English and Spanish for the menu language.

You can choose from a variety of audio languages to be heard if a program is simulcast in that language. If that language is not available for that broadcast, the programming will be heard in its default language.



Set VCR Type

Use the arrow, OK, and number buttons of the remote control to follow the menu options displayed when you select the Set VCR Type menu button. These screens will allow the digital satellite receiver to control a properly attached VCR.

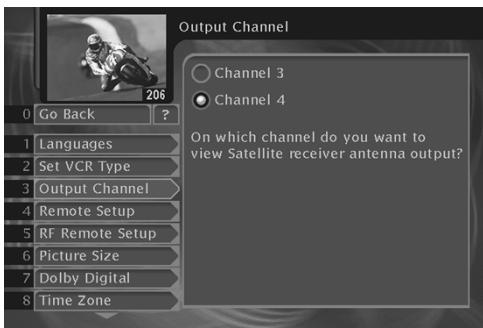
Selecting this button transfers you to a Set VCR Type menu with a scrollable list of manufacturers displayed in alphabetical order. Scroll to the proper manufacturer, and a list of codes appears. Use the remote control's arrow and OK or the corresponding number button to select one of the options.

Notes: If you select Code Search from the list of codes, the satellite system will automatically try every code in the list until the proper one is used.

If you do not see your VCR manufacturer's name, select Other (at the bottom of the list) and enter the appropriate code from the "Using the Remote" section.

Follow the on-screen instructions until the Set VCR Type feature is properly set.

Using On-Screen Menus



Output Channel

This feature allows you to change the channel to which the satellite receiver broadcasts its signal. The default setting is channel 3.

Note: If you used A/V cables to connect your digital satellite receiver to your TV, then you must use the TV's video line input to see the satellite broadcast.

Remote Setup

This allows you to choose which remote control button will control the digital satellite receiver. You can choose between SAT and AUX buttons. The default is SAT.

Use the remote control's arrow and OK buttons to make your choice.

RF Remote Setup

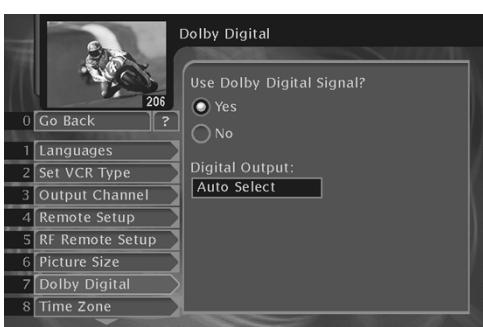
This feature allows you to configure the RF remote control's privacy code. This is the best way to avoid interference between your satellite receiver's remote control and other Thomson RF remote controls. This is helpful if you are using two satellite receivers, each with RF remote controls.

Use the remote control's arrow and OK buttons to make your choice. Follow the on-screen instructions for details.



Picture Size

Selecting Picture Size allows you to select the type of TV connected to the receiver. You can choose between Normal (4X3) or Cinema (16X9). The default is Normal.

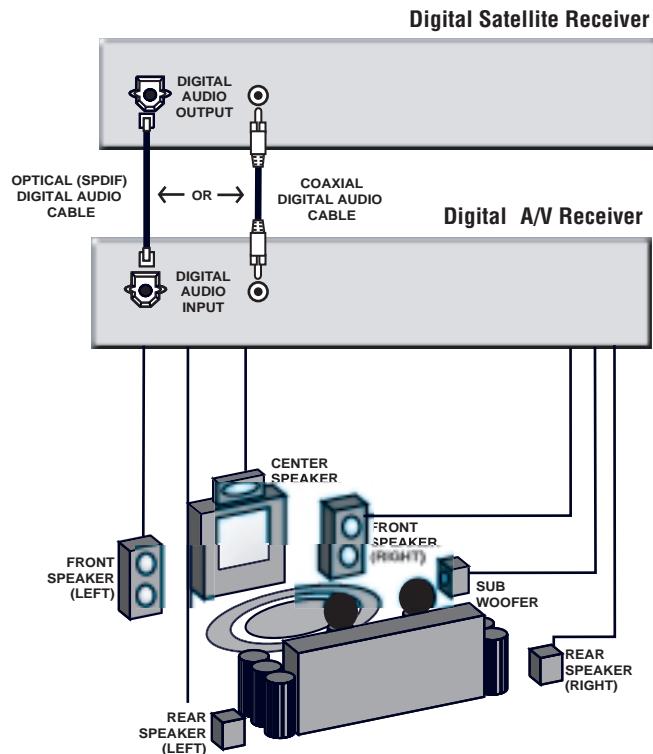


Dolby Digital

This menu feature allows the system's audio output to use Dolby-Digital quality sound. You must have the digital satellite system attached to a Dolby-Digital enabled receiver or decoder via the DIGITAL AUDIO output jacks on back of the satellite receiver in order for this feature to work.

Dolby Digital* Setup

Dolby Digital (when available) provides six independent soundtrack channels through a digital audio output jack. Your digital satellite receiver has SPDF [IEC-958] digital PCM or Dolby Digital-encoded as well as coaxial digital audio output jacks. These can be connected to an external Digital Audio Receiver/Decoder equipped with a compatible digital audio input (see page 17 in the Setup and Connections section for more information). With such additional equipment, you can enjoy more dynamic and realistic sound.



Requirements

- Digital Audio Receiver/Decoder with digital optical or coaxial input jack.
- Programming with a digital soundtrack.
- Optical (SPDIF) cable or coaxial audio cable.
- Six speakers: left front, left rear (surround), right front, right rear (surround), center and sub-woofer.

Connections

This diagram illustrates the equipment connections and home theatre speaker arrangements. Check your equipment's user manuals for more detailed connection information. (Note: older digital equipment may not be compatible with the Dolby Digital bitstream and could cause damage to ears, headphones, or speakers. Please read the note at left for more information.)

Note: This digital satellite receiver's digital audio output jacks fully comply with the international standard governing these types of jacks (IEC958, and coaxial digital audio), and are designed for connection to a Dolby Digital (AC-3 or PCM) receiver or Dolby Digital (AC-3 or PCM) decoder. Older equipment, some of which is not fully compliant with IEC958, may not be compatible with the Dolby Digital bitstream. Such a connection using anything other than a PCM, Dolby Digital, or Dolby Pro Logic receiver or decoder could create a high noise level, causing damage to headphones or speakers.

Using On-Screen Menus



Time Zone

Using this feature allows you to set the local time zone and to enact a Daylight-Saving time option. Accurate time is necessary for Timer Recordings and Watch and Remind features, but setting the time zone is normally automatic, and generally does not require you to do anything.

Setting the time zone should only be done in rare circumstances, such as if the program times are wrong after the system card has been activated.

Note: You must select an entry in the Choose your time zone field before all menu items are displayed.

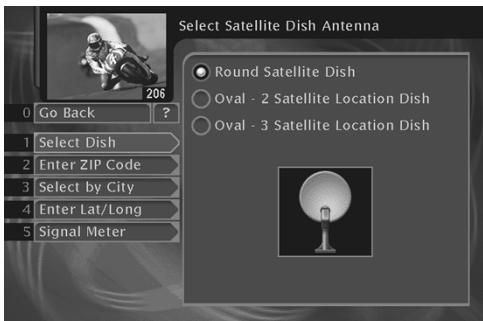
Multi-Switch Setup

This feature allows the satellite system to know if you have a multi-switch connected to the system and to determine what type of multi-switch is used.

This feature should only be used in rare circumstances, such as when instructed to do so by DIRECTV.

Dish Pointing

The Dish Pointing menu helps you set up your digital satellite receiver and optimize your reception of the satellite signal.



Tip

It is important to select the correct dish type. If you do not, you will not receive the proper dish pointing coordinates and you will not be able to take full advantage of your DIRECTV System.

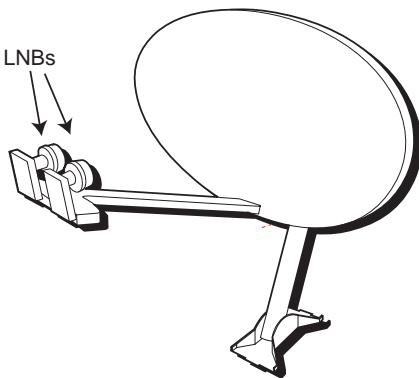
Selecting Dish Antenna

It is important to complete each of the following steps required for your satellite dish antenna. If you do not, you will not receive proper dish pointing coordinates and will not be able to take full advantage of your digital satellite receiver.

Specify the type of dish you are using:

1. Press MENU on the remote control to bring up the Main menu.
2. Select *System Setup*, then *Dish Pointing*, then press OK to access the dish pointing screen.
3. *Select Dish* is highlighted by default. Press the OK or right arrow button to access the information on the right-side panel.
4. Specify the type of dish you are using: a round satellite dish or an oval satellite dish with two or three LNBs (Low Noise Block-converter). When the proper dish is highlighted, press OK.

Note: Changing the dish type will delete all stored Guide information while the digital satellite receiver gets the updated Guide data. While updating Guide information, advanced search features such as the Scout™ and AlphaSort™ will only have a few hours of data from which to work.



An oval satellite dish with two LNBs (not provided with all systems).

Tip

Azimuth is the side-to-side direction that the satellite dish antenna is pointed.

Elevation is the up/down angle that the satellite dish antenna is pointed. Tilt is the circular rotation of the dish itself, like the motion of a steering wheel.

Enter Zip Code

This feature allows you to find dish-pointing coordinates from your local zip code.

1. In the *Dish Pointing* menu, use the remote control's arrow buttons to select *Enter Zip Code*.
2. Use the numeric buttons on the remote control to enter in the proper zip code.
3. After entering the final digit, the receiver displays the dish-pointing coordinates. For convenience, record the numbers in the spaces below.

Note: If you have a round satellite antenna, you will not see numbers for Tilt. Tilt applies only for satellite antennas with more than one LNB.

Dish-pointing Coordinates

Elevation _____ Azimuth _____

Tilt (oval satellite dish only) _____

Select by City

Allows you to choose major cities from selected states to find dish-pointing coordinates.

Enter Lat/Long

Allows you to find dish-pointing coordinates from latitude and longitude entries. Latitudes between 20 and 55 can be entered, and longitudes between 65 and 125 can be entered.

Signal Meter

This feature allows you to determine the strength of all available signals, one at a time. There is a separate test for each satellite from which your antenna receives information.

Using On-Screen Menus

Tip

If your system fails a test, run the system test several times before concluding that there is a problem. Occasional fluctuations in the phone line or satellite signal can give temporary false readings.



The "RSA Secure" logo ensures that only authorized upgrades or modifications are delivered to your digital satellite receiver.

System Test

This function allows you to perform a system-level diagnostic test on the satellite receiver. There are four sub-tests within this system test. Each one will display results after the testing for that area is complete. The receiver's access card number is also displayed in this menu.

Note: While the system is testing the signal, the video will temporarily blank out. When the tests are complete, a summary display appears.

System Info

This function displays the model and serial numbers of the receiver. It will also display the brand name and display a features list.

Upgrades

Your digital satellite receiver is able to receive upgrades or modifications to some of its features and functions. These modifications will occur automatically, usually at times when your receiver would likely be turned off. If your receiver is on when an upgrade or modification is sent, you may experience a disruption in reception for a minute or two. Your reception should return to normal after the modification is complete.

Note: Your receiver must be plugged in to receive any updates. Do not unplug your receiver while an update is in progress. Please consult the Upgrades Menu to find a schedule of upgrades or modifications planned by DIRECTV.

New Access Card

Selecting the New Access Card function allows you to update the digital satellite receiver with a new access card. This is necessary on occasion when DIRECTV sends out a new card.

Alternate Data

Selects from among the available data channels.

8 Interactive

Interactive

This function allows you to learn more about DIRECTV INTERACTIVE™. It also allows you to setup an account for the free service, review transactions and messages, and to change settings.

*RSATM Secure and the RSATM Secure logo are trademarks of RSA Data Security, Inc.

Other Information

Chapter Overview:

- Troubleshooting
- Finding the TV's Video Input Channel
- Running the System Test
- Limited Warranty
- Accessory Order Form
- Index

Changing Entertainment. Again.



Troubleshooting

Many problems can be corrected by performing a simple reset of the digital satellite receiver. If you experience the following:

- **Image freezes**
- **Audio freezes**
- **Blank screen**
- **Won't respond to front panel or remote**

try this: press and hold the INFO and right arrow buttons for at least three seconds. If the problems persist, try unplugging the digital satellite receiver for 15 seconds to 2 minutes and then plug it in again.

Running the System Test (later in this section) can also help you diagnose and solve many common problems.

Digital Satellite Receiver Problems

Wrong picture

The digital satellite receiver and most VCRs let you toggle between signals. If you don't see the signal you think you should be seeing, try using these buttons to toggle between the signals:

- Press the TV/VCR button on the VCR remote or on the VCR's front panel.
- Press the ANTENNA button on the remote control.

Taking either of the above actions lets you switch the source of the video signal from satellite signals to the off-air antenna or cable signal, and vice versa.

- You may not have installed your satellite dish antenna properly.

Refer to the dish pointing instructions in the Menu section of this book and the installation guide that came with your satellite dish antenna.

Problems with Caller ID

- Most wireless phone jacks will function properly with Caller ID. However, to verify proper Caller ID operation, directly connect the phone line to a standard wall-mount phone jack.

Light flashes on front panel

- You have unread Caller ID messages. Highlight and select *Messages* from the Main menu, and then select *Caller ID List* to see a list of sequential Caller ID information. Once you access your messages, the L.E.D. flashing will stop.

Receiver will not turn on

- Check to make sure it is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- Maybe batteries in remote control are "dead."
- Maybe remote control is not aimed at remote sensor.
- Unplug the receiver. Wait five minutes. Plug it in again.

Turns off while playing

- Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high or low.

Satellite receiver turns on or changes channels unexpectedly

- Scheduled Watch or Record timer has been activated.
- Another Thomson RF remote control within 150 feet may be operating on the same frequency. See page 28 for details about changing your RF remote control's frequency.

Blank screen

- Your satellite receiver may be hooked incorrectly to the TV. Change channels using the satellite receiver's front panel buttons to see if the channel banner appears. If it does not, check the Setup and Connections section for instructions about connecting your satellite receiver.

Partial programming loss

- Your multiple LNB satellite antenna may be incorrectly configured. Change the dish type set in your receiver's preferences. Press the MENU button on the remote control, then select *System Setup*. In the next menus, select *Dish Pointing*, and then *Select Dish*. From the Select Dish display, make sure the proper antenna is selected (round, or oval with 2 LNBs, or oval with 3 LNBs).

Remote Control Problems

Problems with the remote control

- Maybe something is between the remote control and the remote sensor.
- Maybe the remote control is not in SAT mode. Press the SAT (or, if your remote is older, SAT1 or DIRECTV) button so the remote will control the digital satellite receiver.
- Remember to press the OK button after entering a channel number that is less than four digits long.
- Maybe batteries in the remote control are weak, dead or installed incorrectly. Try replacing batteries. (Note that when you replace the batteries you may have to reprogram your remote to control other devices.)
- Remove batteries; press and hold the 1 button for at least 60 seconds to drain the microprocessor inside the remote control. Release number 1, replace the batteries, and (if necessary) reprogram the remote.
- If you are trying to operate a device other than the digital satellite receiver that you have programmed the remote to control, make sure you press the corresponding device button (DVD, VCR2, etc.) first.

TV or VCR Problems

Blank screen

- Maybe the component connected to the input jacks is not turned on.
- Try another channel.

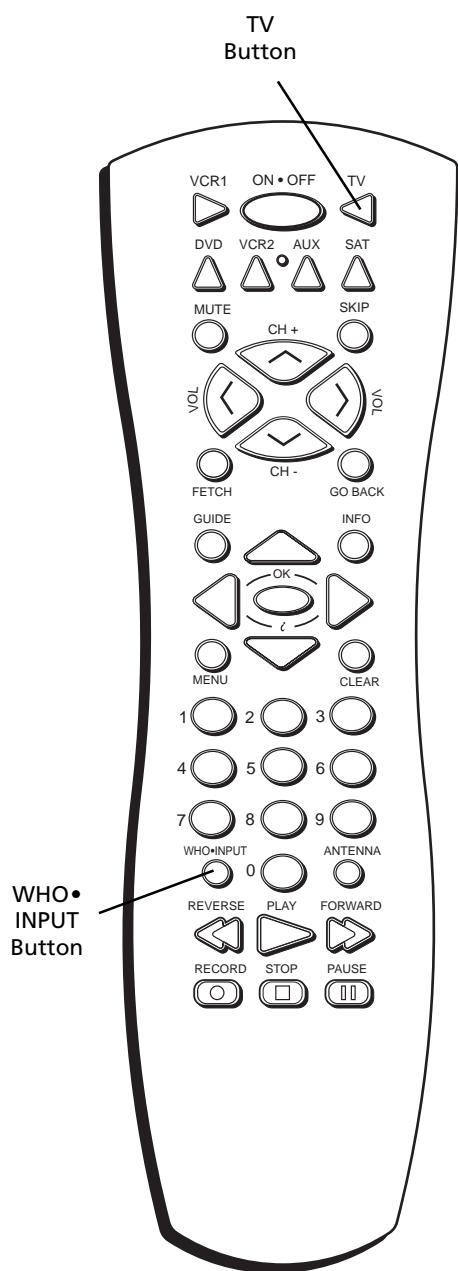
TV turns on or changes channels unexpectedly

- A scheduled Watch or Record Timer has been activated.

VCR turns on or off unexpectedly

- A timer may be set to record. The timer will automatically turn the VCR on and off.

Finding the TV's Video Input Channel



Note: If your TV is connected with just coaxial cables, you only need to tune to channel 3 or 4.

If you used audio/video cables to connect your TV to the digital satellite receiver, you must tune your TV to the video input channel to view DIRECTV® programming and menus. There are just as many ways to access a TV's video input channel as there are brands and models of TVs. Below are some things you can try.

- If your TV brand is RCA, GE, or PROSCAN, press TV on the remote control that came with your digital satellite receiver. Then press the WHO•INPUT button on the remote.
- If your TV brand is not RCA, GE, or PROSCAN, consult your TV Owner's Manual.

If you cannot find your TV Owner's Manual, you will have to investigate. You might access the TV's video input channel by:

- pressing a button on the remote control
- finding it through the TV's menu system
- tuning directly to it by pressing a specific channel number
- going through all channels in the list by pressing the channel up or down buttons on the TV.

The box below lists of some of the different ways manufacturers label the video input channel.

Video Line Input Variations

Button/switch on the TV	Button on the TV Remote	Channel #
VIDEO	VID 1	00
SIGNAL	LINE	90
VID 1	VID	91
VID 2	VIDEO	92
S-VID	S-VID	
S-VIDEO	INPUT	VID 1
	SOURCE	VID 2
	AUX	

Running the System Test

The System Test allows you to run a basic diagnostics check on your digital satellite receiver. If you are experiencing any trouble with your receiver, run the system test. It will also allow you to get your access card number or to initiate diagnostic procedures on your digital satellite receiver.

First make sure that:

- all connections—jacks, cables, etc.—are correctly in place. See Chapter One, Setup and Connections, for more information.
- There are batteries in the remote control, and they are working correctly.
- The access card is installed in the digital satellite receiver.

Follow these steps to run the diagnostics system test on your digital satellite receiver.

1. Turn on your TV and the digital satellite receiver.
2. Press the SAT button to put the remote control in satellite receiver-controlling mode, then press MENU to bring up the Main menu.
3. Select *System Setup*.
5. Select *System Test*.
6. If your system does not pass the system test, check any of these potential trouble areas: cabling, pointing the satellite dish, phone connection, and access card.
7. If you continue to have problems, call RCA Customer Service at 1-800-679-4776.

You should run a system test several times before concluding that there is a problem. Occasional fluctuations in the phone line or satellite signal can give temporary false readings.

Fine-Tuning the Signal

If you self-installed your satellite dish antenna, you may have already used the Assisted Setup to find the dish-pointing coordinates, acquire and fine-tune the signal, and run a system test.

If you need to run the Assisted Setup again, select *System Setup* from the Main menu, then select *Assisted Setup*.

If you just want to check your dish-pointing coordinates or run the signal strength meter, select *System Setup* from the Main menu, then select *Dish Pointing*.

Other Information

Limited Warranty

What your warranty covers:

- Defects in materials or workmanship.

For how long after your purchase:

- 90 days from date of purchase - Unit exchange, which includes parts and labor.
- 91 days to 1 year from date of purchase - Unit exchange, which includes parts only; you pay the labor.
- The warranty for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

What we will do:

- **During the initial 90 days:**

Exchange the defective receiver with a new or, at our option, refurbished unit.

- **After the 90 days and within one year:**

Exchange the defective receiver with a new or, at our option, refurbished unit. We will charge you a flat exchange cost to replace a defective receiver. This charge covers the labor cost for its repair.

How you get service:

- Call 1-800-679-4776 and have your unit's date of purchase and model/serial number ready. The model/serial number information is on the back of your receiver.
- A representative will troubleshoot your problem over the phone.
- If the representative determines that you should receive a replacement receiver you will be provided with a Service Request (SR) number and the location of a nearby exchange point if one exists. No returns will be accepted without the SR number.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

Option I:

1. Provide your Discover, MasterCard or Visa account number and expiration date to your phone representative. This is for security purposes only and your account will not be charged at this time.
2. We will send you a replacement unit.
3. If you return the unit to us within 14 days from the date you were provided a SR number, only items not covered by warranty will be charged to your account. If your unit is not received within 14 days, the suggested retail value of the receiver will be charged to your credit card. This amount will be credited, less a \$10 handling fee, if the unit is subsequently received.
4. Ship your defective unit back to us using the replacement unit's carton. Shipping instructions will be included on the carton along with your SR number which will allow you to easily ship the unit back to us. Make sure you insure your shipment in case of damage or loss. Include with the shipment:
 - Evidence of purchase date such as a bill of sale.
 - A brief note describing your receiver problem.
 - Your name, address and phone number.

Option II:

1. For a fee of \$10.00, we will send a replacement unit to our exchange point.
2. The exchange location will notify you of its arrival.
3. Take your unit and evidence of purchase date, such as a bill of sale, to the exchange location and you will be provided the new or refurbished unit. Please retain all accessories such as the remote control hand unit and access card.
4. If the repairs are covered by your warranty, you will not be billed.

Thomson assumes no responsibility for warranty shipments from the customer to the factory if not shipped in the manner prescribed by Thomson.

To receive a replacement receiver after we have received your unit:

- Write the SR number on the outside of the carton used to return the unit. Make sure you insure your shipment in case of damage or loss.
- Carefully pack the unit using the original box and packing material if possible. Please retain all accessories that were included with your unit such as the remote control hand unit and access card.
- Include with the shipment:
 1. Evidence of purchase date such as a bill of sale.
 2. A brief note describing your receiver problem.
 3. Your name, address and phone number.
- The representative will advise the address to mail a cashier's check or money order for payment if there are any out of warranty labor or parts charges, and you elect not to use your credit card.
- After we receive your product, a new or refurbished unit will be shipped to you.

What your warranty does not cover:

- Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)
- Acts of nature, such as but not limited to lightning damage.
- Adjustment of customer controls.
- Damage from misuse or neglect.
- A unit that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- Batteries.
- Units purchased, serviced or operated outside the continental U.S.A. and Alaska.
- Loss of programming.
- Installation.
- Shipping damage if the unit was not packed and shipped in the manner prescribed by Thomson.
- Storage fees may be charged by the exchange point if you fail to pick up the replacement unit in a timely manner.

Product Registration:

- Please complete and mail the Product Registration Card packed with your unit. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

Limitation of Warranty:

- **THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY THOMSON MULTIMEDIA INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.**
- **REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. THOMSON MULTIMEDIA INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.**

How state law relates to warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your product outside the United States:

- This warranty does not apply. See your dealer for warranty information.

Other Information

FCC Registration Information

Your digital satellite receiver is registered with the Federal Communications Commission and is in compliance with parts 15B and 68, FCC Rules and Regulations.

1. Notification to the Local Telephone Company.

On the back of this equipment is a label indicating among other information, the FCC Registration number and Ringer Equivalence Number (REN) for the equipment. You must, upon request, provide this information to your telephone company.

The REN is useful to determine the number of devices you may connect to your telephone line and still have all these devices ring when your telephone number is called. In most (but not all) areas, the sum of the RENs of all devices connected to one line should not exceed 5. To be certain of the number of devices you may connect to your line as determined by the REN, you should contact your local telephone company.

Note: This equipment may not be used on coin service provided by the telephone company. Party lines are subject to state tariffs, and therefore you may not be able to use your own telephone equipment if you are on a party line. Check with your local telephone company. Notice must be given to the telephone company upon permanent disconnection of your equipment from your line.

2. Rights of the Telephone Company.

Should your equipment cause trouble on your line which may harm the telephone network, the telephone company shall, where practicable, notify you that temporary discontinuance of service may be required. Where prior notice is not practicable and the circumstances warrant such action, the telephone company may temporarily discontinue service immediately. In case of such temporary discontinuance, the telephone company must: (1) promptly notify you of such temporary discontinuance (2) afford you the opportunity to correct the situation and (3) inform you of your right to bring a complaint to the Commission pursuant to procedures set forth in Subpart E of Part 68, FCC Rules and Regulations.

The telephone company may make changes in its communications facilities, equipment, operations or procedures where such action is required in the operation of its business and not inconsistent with FCC Rules and Regulations. If these changes are expected to affect the use or performance of your telephone equipment, the telephone company must give you adequate notice, in writing, to allow you to maintain uninterrupted service.

Radio Interference

This equipment has been type tested and found to comply with the limits for a Class B Digital Device in accordance with the specifications in Part 15 of FCC Rules. These rules are designed to provide reasonable protection against radio and television interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception (which you can determine by turning the equipment off and on), try to correct the interference by one or more of the following measures.

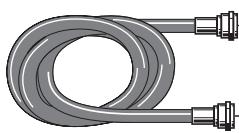
- Reorient or relocate the receiving antenna (that is, the antenna for radio or television that is "receiving" the interference).
- Change the position of the satellite receiver with respect to the radio or television equipment that is receiving interference.
- Move the satellite receiver away from equipment receiving interference.
- Plug the satellite receiver into a different wall outlet so the receiver and equipment receiving interference are on different branch circuits.

If these measures do not eliminate interference, please consult your dealer or an experienced radio/television technician for additional suggestions. Also, the Federal Communications Commission has prepared a helpful booklet, "How To Identify and Resolve Radio/TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Please specify stock number 004-000-00345-4 when ordering copies.

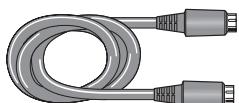
Other Information

Accessory Order Form

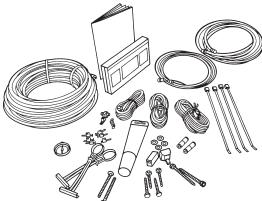
Description	Part No.	Price	Qty	Total
RG-6 Coaxial Cable				
12 feet	DT12C	\$14.95		
25 feet	DT25C	\$24.95		
50 feet	DT50C	\$39.95		
S-Video Cable 12 feet	DT12S	\$19.95		
Weatherproof "F" Connector (2)	D905	\$5.95		
Optical/SPDIF Cable (3-ft)	DV3	\$15.95		
Optical/SPDIF Cable (6-ft)	DV6	\$19.95		
TVRO Bullet Amplifier	D903	\$22.95		
Self-Installer's Kit	DKIT96	\$69.95		
Remote Control CRK76SH3	251934	\$33.10		
Surge Protector	SCTV1650	\$49.95		
Wireless Modem Jack	RC930	\$99.95		



RG-6 Coaxial Burial Cable with weatherproof "F" connectors comes in a variety of lengths.



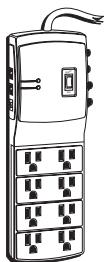
S-Video Cable comes in 12 foot lengths.



Self-Installer's Kit contains all the cable and hardware needed to install the dish and connect the system.



Remote Control replaces a lost remote. Or, order a second remote for convenience.



Eight outlet surge protection for cable TV, satellite systems and other electronics. Comes with a \$50,000 equipment guarantee.



Detach Here

Total Merchandise	\$ _____
Sales Tax	\$ _____
We are required by law to collect the appropriate sales tax for each individual state, country, and locality to which the merchandise is being sent.	
Shipping, Handling, and Insurance	\$ 5.00
Total Amount Enclosed	\$ _____
Use VISA, MasterCard, or Discover preferably. Money order or check must be in U.S. currency only. No COD or CASH.	

All accessories are subject to availability.

Prices are subject to change without notice.

Please complete other side also

Other Information

Charge your order on your VISA, MasterCard, or Discover Card by filling in below

USE YOUR CREDIT CARD

IMPORTANT: Copy complete account number from your VISA card

My card expires:

IMPORTANT: Copy complete account number from your MasterCard



Copy Number above your name on MasterCard My card expires:

IMPORTANT: Copy complete account number from your Discover Card



My card expires:

AUTHORIZED SIGNATURE
(Credit card order will not be processed without signature)
Prices are subject to change without notice.

Print or type your name and address clearly.

A complete and correct order will save you days of waiting.

Name: _____

Street: _____

_____ Apt: _____

City: _____

State: _____ Zip: _____

Daytime Phone Number: _____

Please make sure that both sides of this form have been filled out completely.

- Allow 4 weeks for delivery.
- All accessories are subject to availability.
- Prices are subject to change.

Placing an Order

To place your order by phone, have your Visa, MasterCard or Discover Card ready and call the toll-free number listed below. Use this number only to place an order for accessory items listed on this order form.

1-800-338-0376

To place your order by mail, detach and mail the completed order form with credit card information, money order or check in US currency (made payable to Thomson multimedia, Inc.) to the following address:

Video Accessories

**PO Box 8419
Ronks, PA 17573**

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If your digital satellite receiver needs service, please contact your dealer or the nearest Service Center from the Yellow Pages. Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

The software used to display images in this product is based in part on the work of the Independent JPEG Group.

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